

Web Soil Survey 1.1 - How to Use It

Web Soil Survey -- purpose

- Web application that provides producers, agencies, TSPs, and others electronic access to relevant soil and related information needed to make use & management decisions about the land

Web Soil Survey -- purpose

- Provides alternative to traditional hardcopy publication
- Provides means for quicker delivery of information
 - reduce publication backlog
- Provides electronic access to full soil survey report content
- Provides access to most current data

Web Soil Survey -- purpose

- Allows customer to get just information they want/select
 - Map units for their geographic area of interest (AOI)
 - Information relevant to customer's landuse – e.g. rangeland concerns

WSS Products

- Soil Map on Ortho backdrop for the AOI from SSURGO (where available)
- Soil Data Mart Tables by AOI
- Download SSURGO data

WSS Products

- Standard Soil Survey Manuscripts (PDF) for selected survey areas
 - Text, tables, and maps by Soil Survey Area (SSA)
 - As this is data from a snapshot in time, it may not be identical to official data presented via interactive parts of WSS

WSS Products

- Customized Soil Resource Reports (PDF)
 - By AOI
 - Content specifically chosen by user
 - Thematic Maps (with tables and text)
 - Different format from Soil Survey Manuscripts

Web Soil Survey -- functionality

- Customer can select geographic area of interest (AOI)
- View soil and thematic maps online
- Interact with official soil data on Soil Data Mart

Web Soil Survey -- functionality

- Access data across SSA boundaries
- Provide link to related NRCS information and resource data
- Download data
- Print on demand

Provide Easy Access to Relevant Information

- Cross-Platform Browser Support
 - Compatible with newer versions of IE, Netscape, Mozilla, Mozilla Firefox and AOL Explorer

Target Audience

- General public
- Engineers, scientists, and other specialists in local governmental agencies
- NRCS (and other governmental agencies) field employees or technical service providers

WSS 1.1 Functionality

- Define an area of interest
 - Map, county or SSA choice list, address, latitude and longitude, PLSS, or hydrologic unit
- For the area of interest:
 - Get status about what datasets are available
- Display a soil map
- Display thematic maps from Web SDV
- View PDF manuscript w/selected map sheets
- Limited print capability


WSS 1.1 Functionality

- Access ecological sites descriptions applicable to AOI

Pathway through WSS

- Define area of interest – you must specifically set the AOI before you can view any maps or reports
- View Soil Map – if available for AOI
- Browse/Explore soil and related information
 - Generate thematic maps
 - Access Soil Data Mart data tables
- Print/download the selected map or report

WSS 1.1 Opening Screen



National Resources Conservation Service

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Search

Soil

Enter Keywords

Quick Access

- National Cooperative Soil Survey (NCSS)
- Listing of Soil Surveys by State
- Online Soil Surveys
- Status Maps
- Official Soil Series Descriptions (OSD)
- Soil Survey Schedule
- Soil Data Mart
- eFOTG (county technical guides)
- National Soil Characterization Data
- Soil Quality
- Soil Geography
- Soil Research Results
- Soil Geochemistry
- Spatial Database

[Find a Service Center](#)

[States and Regions](#)


[Centers and Institutes](#)

Access to soil survey information is provided through maps. All text and tables relate to the map symbols and the areas delineated on these maps. Persons with disabilities who require alternative means for communication of soil survey information should contact the [NRCS at the USDA Service Center](#) that services the county of interest. See also the [NRCS Accessibility Statement](#).

Web Soil Survey Release 1.1 is Up and Running!

[View an illustrated list of new features.](#)

Start WSS



Welcome to the NCSS Web Soil Survey.

3 Basic Steps make WSS a simple yet powerful way to access and use soil data.

- 1 Define.**
Area of Interest
Use the Area of Interest tab to define the area you are interested in. You can define an area by zooming in on a map and drawing a box around your area or by selecting from a choice list. You must complete this step before you can go on to the next two steps.
- 2 View.**
Soil Map
Next, click on the Soil Map tab to view and print a map of the soils in your area.
- 3 Explore.**
Soil Data Explorer
Third, click on the Soil Data Explorer tab to access soil data for your area. You can determine the suitability of the soils in your area for a particular use.

The Natural Resources Conservation Service provides leadership in a partnership effort to help people conserve, maintain, and improve our natural resources and environment.

Web Soil Survey

Version 1.1

[Maintenance Schedule](#)

[Supported Browsers](#)

[Release Notes](#)

["Web Soil Survey—How To Use It" \(PDF\)](#)

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Start WSS

NRCS Natural Resources Conservation Service

Contact Us | Download Soils Data | Preferences | Logout | Help

Web Soil Survey

Area of Interest | Soil Map | Soil Data Explorer

Quick Navigation

Navigate By...

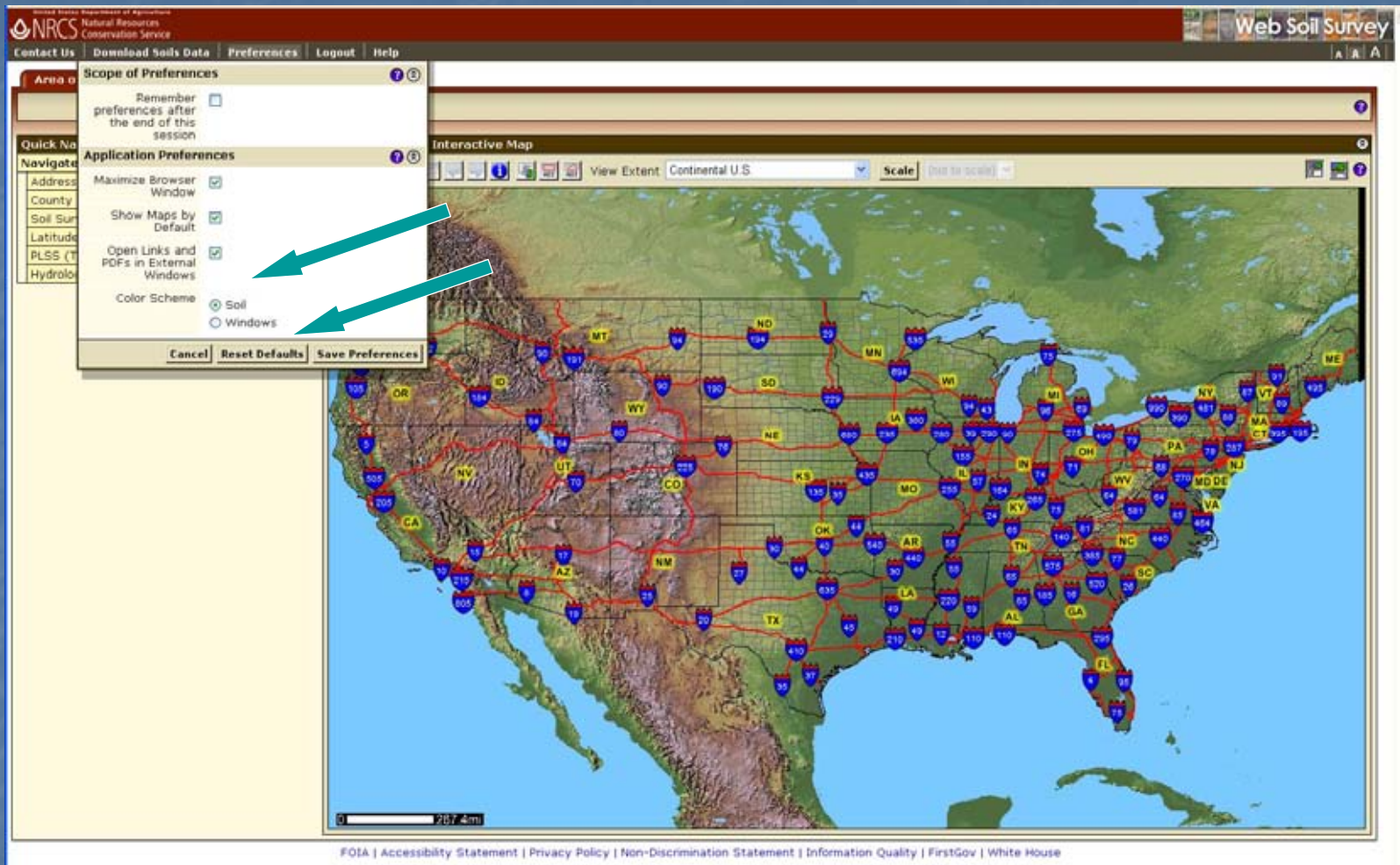
- Address
- County
- Soil Survey Area
- Latitude and Longitude
- PLSS (Township and Range)
- Hydrologic Unit

Area of Interest Interactive Map

View Extent: Continental U.S. | Scale: [Link to scale]

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New Look and Feel



- Choose "Soils" or "Windows" color schemes.
- View PDFs and links in the same browser window as WSS.

Select Other Geographic Areas

United States Department of Agriculture
Natural Resources Conservation Service

Contact Us | Download Soils Data | Preferences | Logout | Help

Web Soil Survey

Area of Interest | Soil Map | Soil Data Explorer

Quick Navigation

Navigate By...

- Address
- County
- Soil Survey Area
- Latitude and Longitude
- PLSS (Township and Range)
- Hydrologic Unit

Area of Interest Interactive Map

Layers

Legend

View Extent

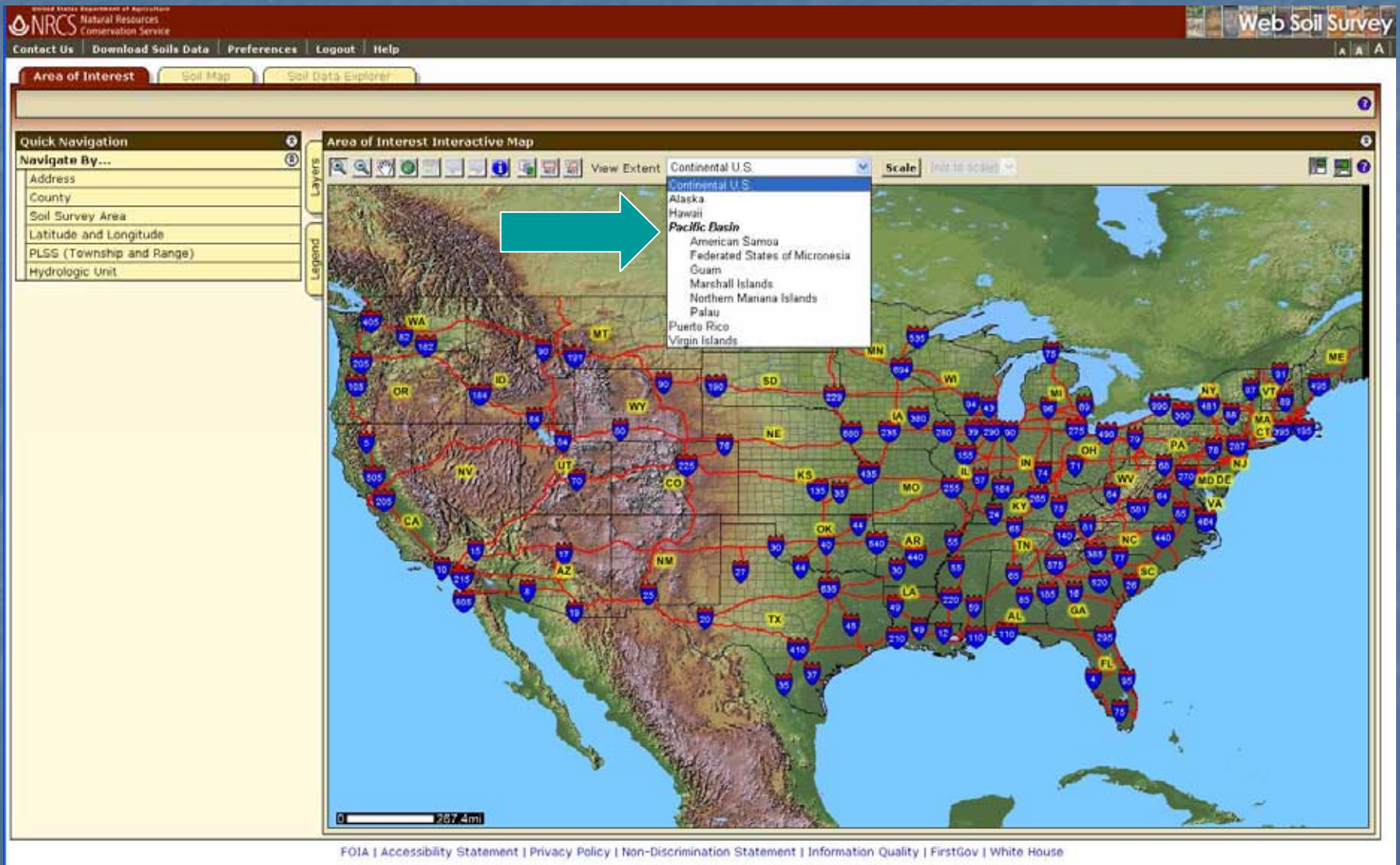
Continental U.S.

Scale

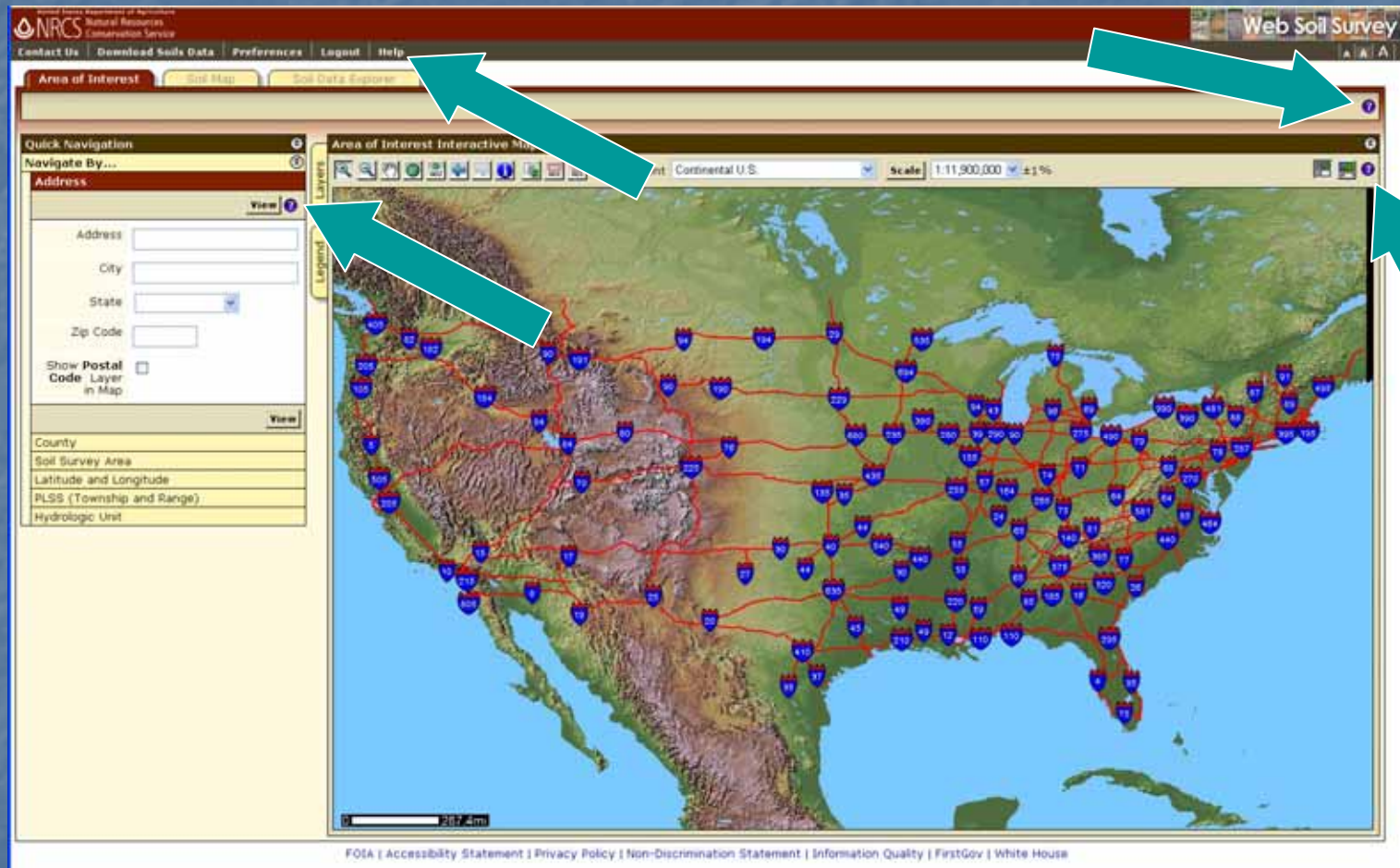
0 267.4mi

Continental U.S.
Alaska
Hawaii
Pacific Basin
American Samoa
Federated States of Micronesia
Guam
Marshall Islands
Northern Mariana Islands
Palau
Puerto Rico
Virgin Islands

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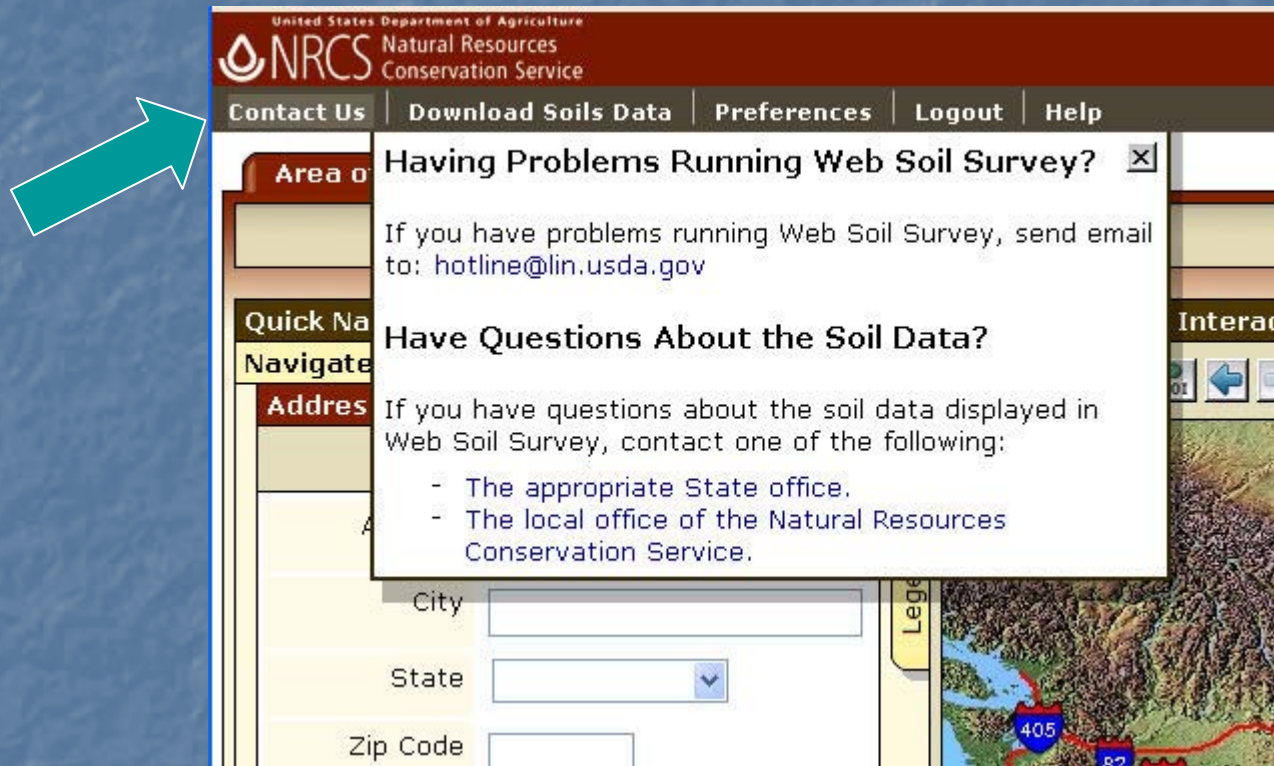
The image is a screenshot of the Web Soil Survey web application. At the top, there is a header for the United States Department of Agriculture's Natural Resources Conservation Service, with links for Contact Us, Download Soils Data, Preferences, Logout, and Help. The main title 'Web Soil Survey' is on the right. Below the header, there are tabs for 'Area of Interest', 'Soil Map', and 'Soil Data Explorer'. On the left side, there is a 'Quick Navigation' section with a 'Navigate By...' dropdown menu. The main area is the 'Area of Interest Interactive Map', which shows a map of the United States with state boundaries and major highways. A dropdown menu is open, showing a list of geographic areas: 'Continental U.S.', 'Alaska', 'Hawaii', 'Pacific Basin', 'American Samoa', 'Federated States of Micronesia', 'Guam', 'Marshall Islands', 'Northern Mariana Islands', 'Palau', 'Puerto Rico', and 'Virgin Islands'. A green arrow points to the 'Continental U.S.' option. At the bottom of the page, there is a footer with links for FOIA, Accessibility Statement, Privacy Policy, Non-Discrimination Statement, Information Quality, FirstGov, and White House.

How to Get Online Help



Click on Help or a "?" for online help.

More ways to get Help



Click on "Contact Us".

View Map at Full Screen Width

United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Preferences | Logout | Help

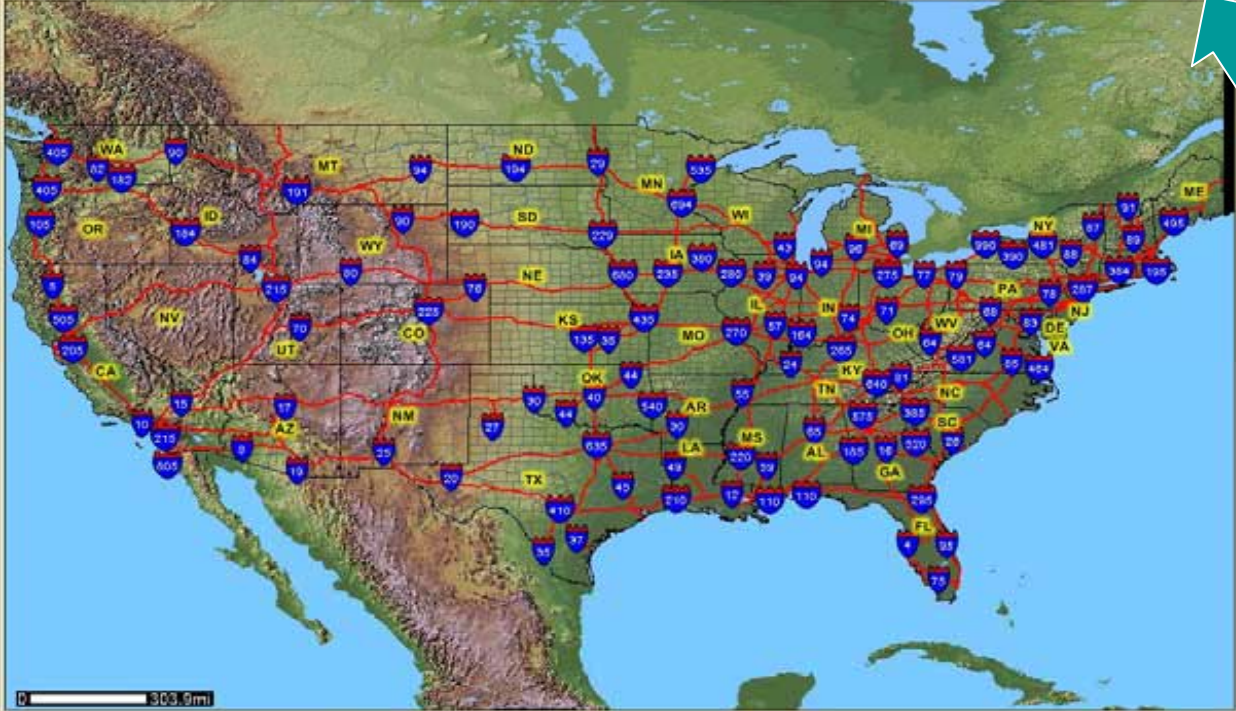
Area of Interest | Soil Map | Soil Data Explorer

Area of Interest Interactive Map

Layers

Legend

View Extent: Continental U.S. | Scale: (not to scale)



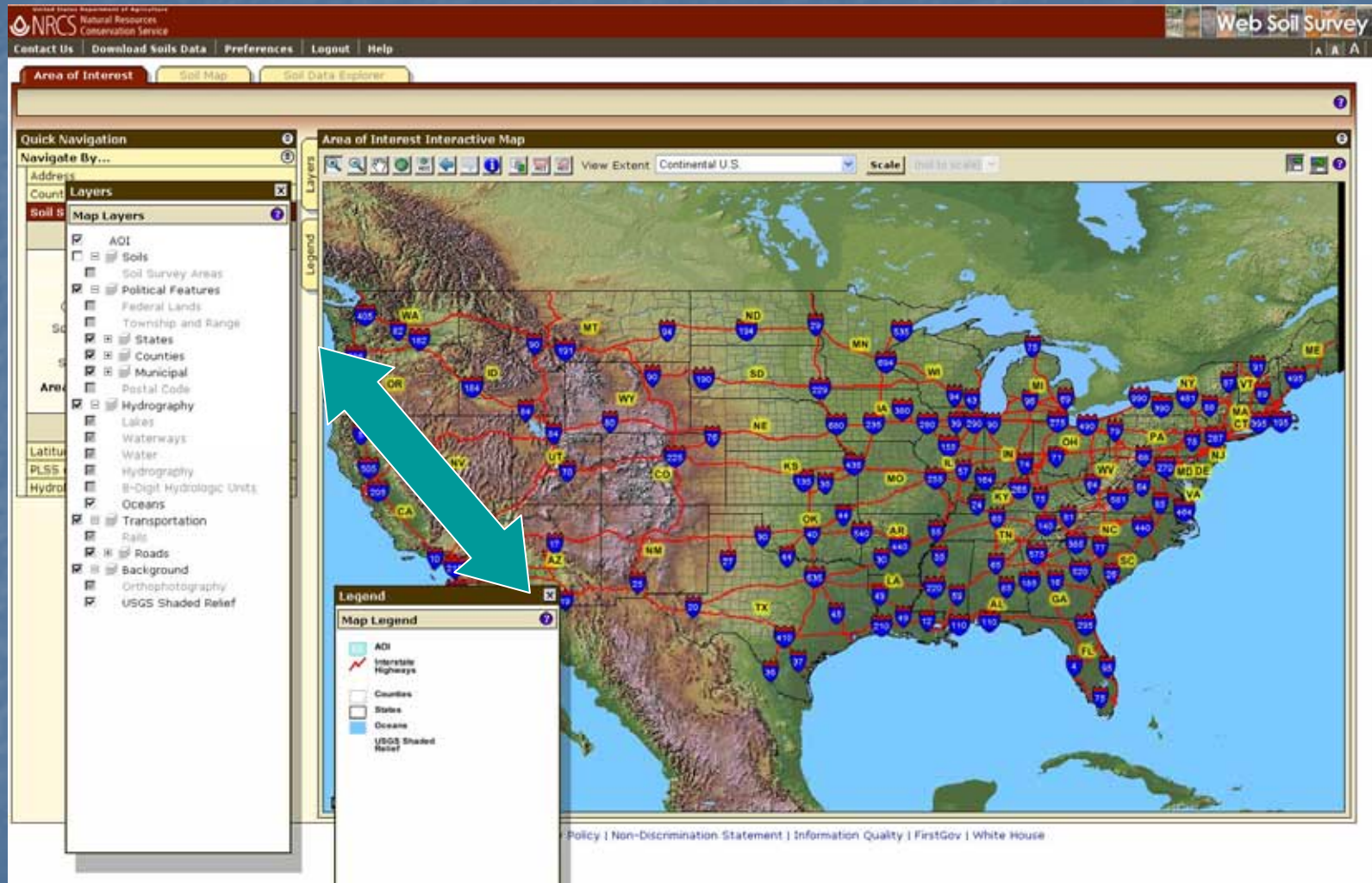
Quick Navigation

Navigate By...

- Address
- County
- Soil Survey Area
- Latitude and Longitude
- PLSS (Township and Range)
- Hydrologic Unit

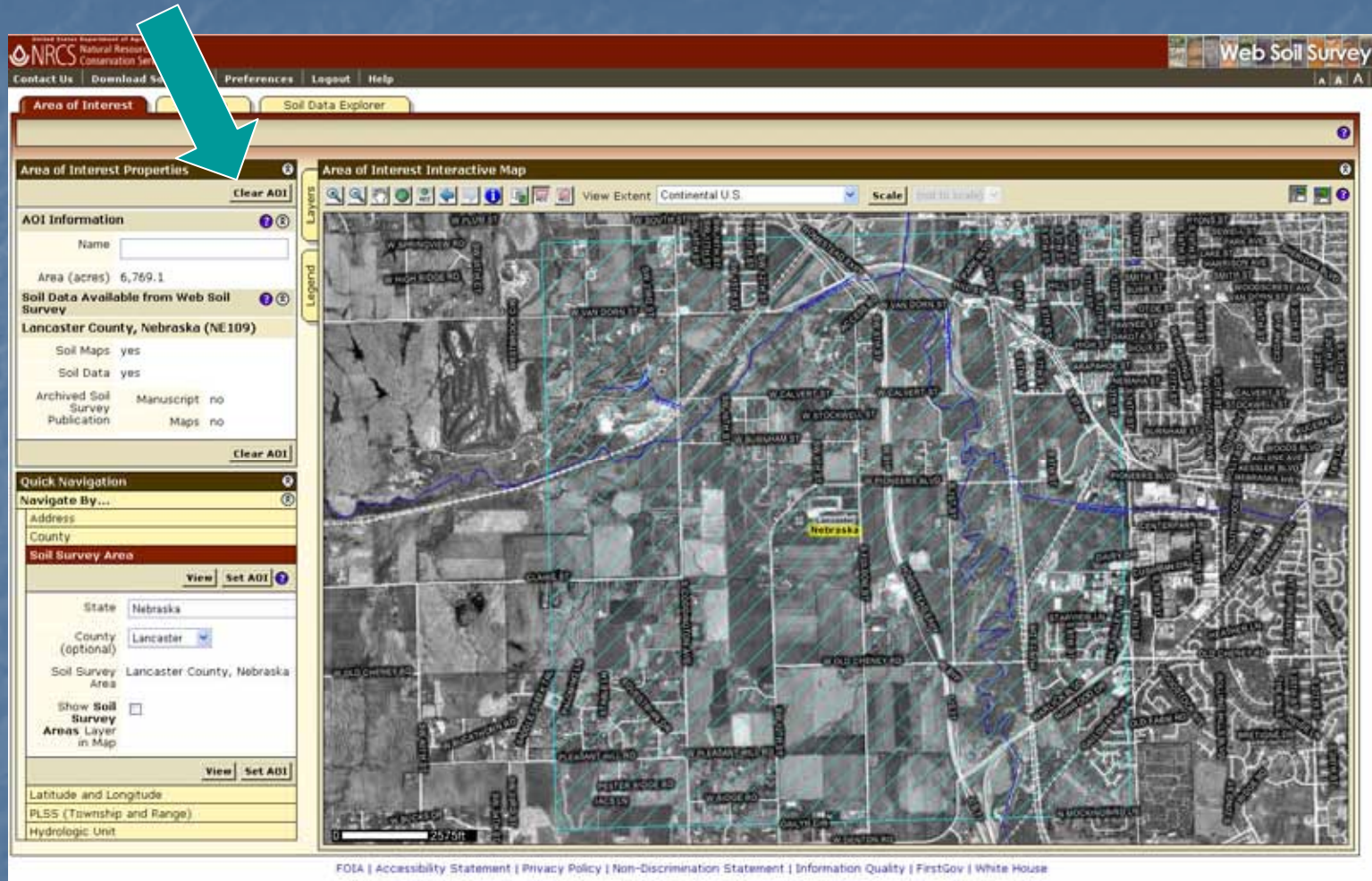
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Floating Windows



You can move the Legend and Layers windows around wherever you want.

Explicitly clear the AOI



The screenshot displays the NRCS Web Soil Survey interface. A red arrow points to the 'Clear AOI' button located in the 'Area of Interest Properties' section. The interface includes a top navigation bar with links like 'Contact Us', 'Download', 'Preferences', 'Logout', and 'Help'. The main content area is divided into two panels: 'Area of Interest Properties' on the left and 'Area of Interest Interactive Map' on the right. The 'Area of Interest Properties' panel contains fields for 'Name', 'Area (acres)', 'Soil Data Available from Web Soil Survey', 'Lancaster County, Nebraska (NE109)', 'Soil Maps', 'Soil Data', 'Archived Soil Survey Publication', 'Manuscript', 'Maps', 'Quick Navigation', 'Navigate By...', 'Address', 'County', 'Soil Survey Area', 'View', 'Set AOI', 'State', 'County (optional)', 'Soil Survey Area', 'Show Soil Survey Areas Layer in Map', 'View', 'Set AOI', 'Latitude and Longitude', 'PLSS (Township and Range)', and 'Hydrologic Unit'. The 'Area of Interest Interactive Map' panel shows a map of Lancaster County, Nebraska, with a green outline indicating the selected area of interest. The map includes a scale bar and a legend.

NRCS Web Soil Survey

Area of Interest Properties

Clear AOI

AOI Information

Name

Area (acres) 6,769.1

Soil Data Available from Web Soil Survey

Lancaster County, Nebraska (NE109)

Soil Maps yes

Soil Data yes

Archived Soil Survey Publication Manuscript no Maps no

Clear AOI

Quick Navigation

Navigate By...

Address

County

Soil Survey Area

View Set AOI

State Nebraska

County (optional) Lancaster

Soil Survey Area Lancaster County, Nebraska

Show Soil Survey Areas Layer in Map

View Set AOI

Latitude and Longitude

PLSS (Township and Range)

Hydrologic Unit

Area of Interest Interactive Map

View Extent Continental U.S. Scale

0 2575ft

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Latitude and Longitude

Quick Navigation	
Navigate By...	
Address	
County	
Soil Survey Area	
Latitude and Longitude	
Use Degrees/Minutes/Seconds	View ?
Latitude	
Decimal Degrees	40.8247
Longitude	
Decimal Degrees	-96.7778
Use Degrees/Minutes/Seconds	View
PLSS (Township and Range)	
Hydrologic Unit	

Zoom to an area using latitude and longitude coordinates in the Quick Navigation panel.

For an area in within the continental U.S., enter a negative decimal degree in longitude.

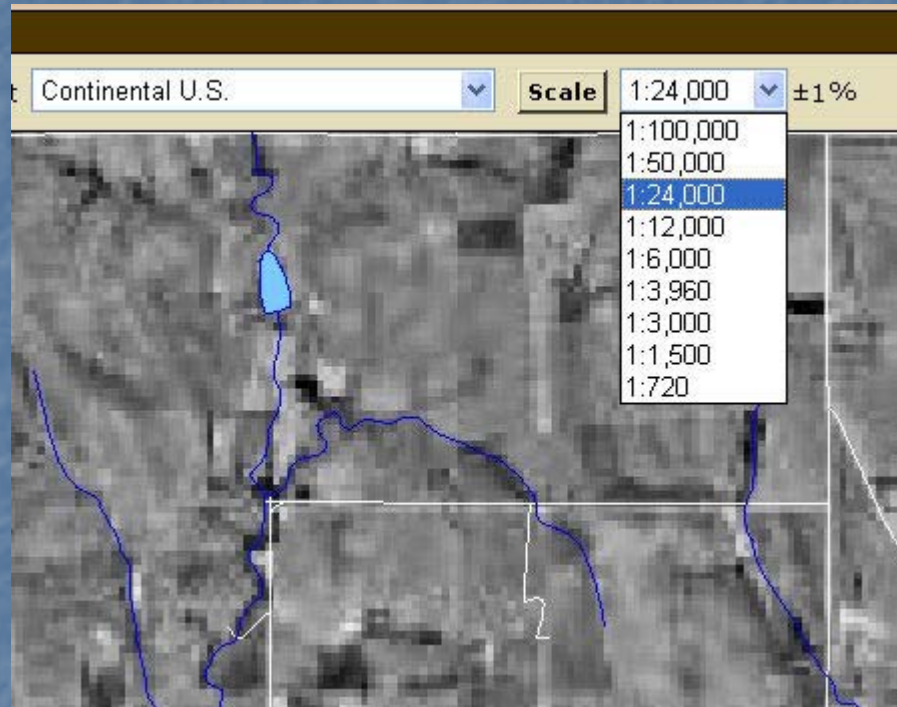
PLSS (Township and Range)

The screenshot shows the NRCS Natural Resources Conservation Service website. The top navigation bar includes links for Contact Us, Download Soils Data, Preferences, Logout, and Help. Below this, there are tabs for Area of Interest, Soil Map, and Soil Data Explorer. The main content area is divided into a Quick Navigation panel on the left and an Area of Interest Interactive Map on the right. The Quick Navigation panel has a 'Navigate By...' section with options: Address, County, Soil Survey Area, Latitude and Longitude, and PLSS (Township and Range). The PLSS section includes dropdowns for State (Utah) and Principal Meridian (Salt Lake), and input fields for Township and Range. There are also radio buttons for North/South and East/West. A 'View Meridian Map' button is present. At the bottom of the panel, there is a 'Show Township and Range Layer in Map' checkbox and a 'View' button. The Area of Interest Interactive Map shows a topographic map with a legend on the left. A 'Principal Meridian Map' window is open, showing a map of Utah with principal meridians and base lines. The map is labeled with 'Salt Lake Mer.', 'Base Line', and '1855'. The map also shows the 'U T A H' and 'U T A H' labels. The map is overlaid on a topographic map of Utah, showing major highways and state boundaries.

Zoom to an area using PLSS (Township and Range) in the Quick Navigation Panel, and view the Township and Range data layer.

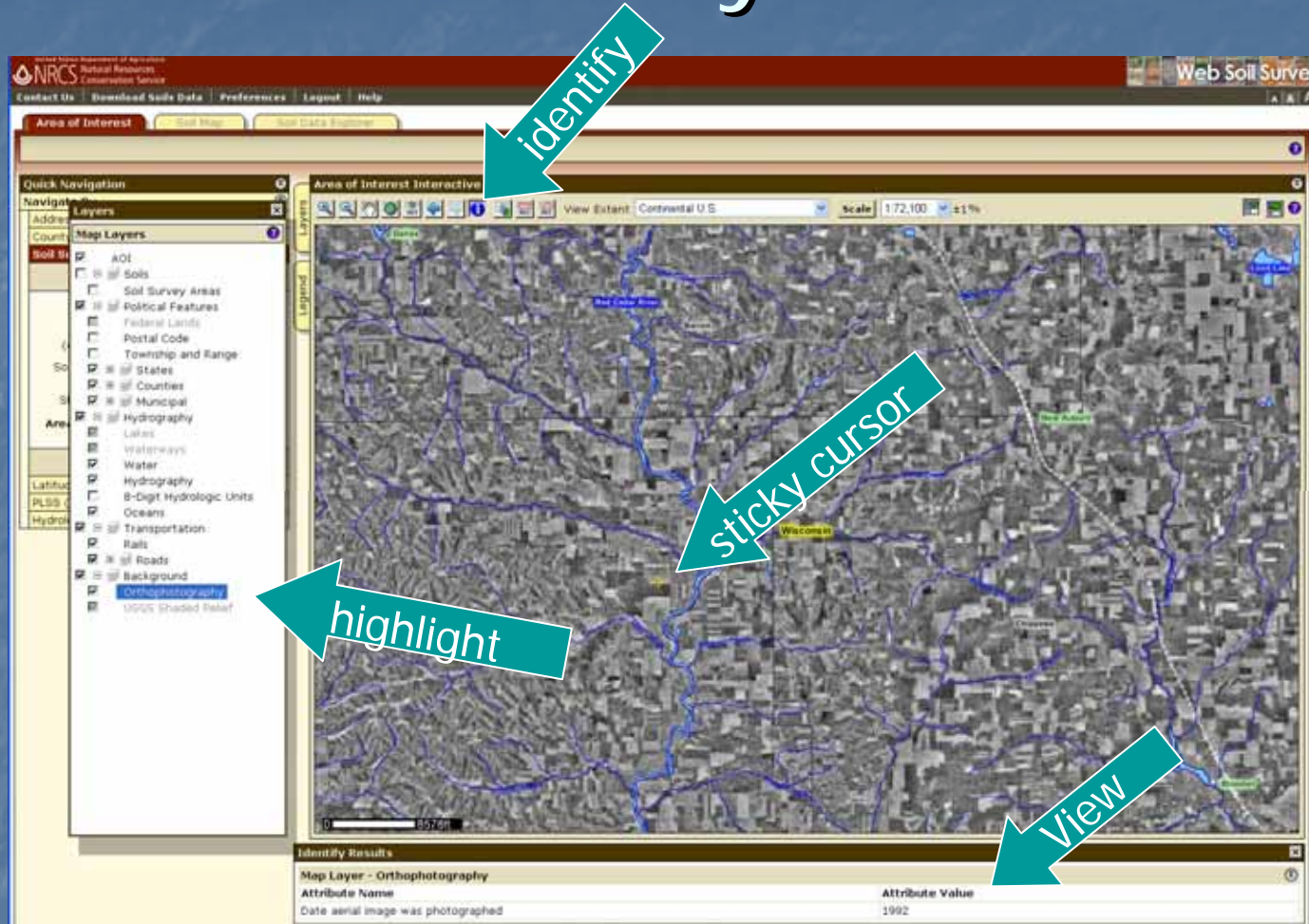
View Meridian Map, where applicable.

Map Scale



Use the map scale feature to see the scale you've zoomed to and to change to a different map scale.

Identify Tool



- Highlight the layer, then click the identify tool. See the Attribute Value for information on the layer.
- Sticky cursor identifies the point you clicked with the Identify and Data Available map tool.

Area of Interest Features

- Navigate to an AOI using basic map navigation themes
 - Transportation
 - Ortho photo
 - Hydrography
 - Political features
- Use Zoom in/out tools available

Area of Interest

Features, cont.

- Define an AOI by drawing a polygon on a map – expanding rectangle or digitize multi-sided polygon
- Select or navigate to an AOI using “Quick Navigation”:
 - Soil Survey Area
 - County
 - Address

Area of Interest

Features, cont.

- Display datasets available for AOI
 - Soil report data – from Soil Data Mart
 - Soil map data – from Soil Data Mart
 - Soil Survey Publication – traditional soil survey report
 - PDF manuscript
 - PDF maps
- Name your AOI, if desired

Define AOI

The image shows a screenshot of the Web Soil Survey (WSS) web application. The interface includes a top navigation bar with the NRCS logo and links for 'Contact Us', 'Download', 'Logout', and 'Help'. Below this is a 'Web Soil Survey' title bar. The main content area is divided into a left sidebar and a central map area. The sidebar contains a 'Quick Navigation' section with a 'Navigate By...' dropdown menu, listing options: 'Address', 'County', 'Soil Survey Area', 'Latitude and Longitude', 'PLSS (Township and Range)', and 'Hydrologic Unit'. The central map area is titled 'Area of Interest Interactive Map' and features a map of the United States with state boundaries and major roads. Three teal arrows point to specific buttons in the map area: 'Select' points to the 'Select' button, 'Zoom' points to the 'Zoom' button, and 'Draw' points to the 'Draw' button. The map also includes a 'View Extent' button and a 'Scale' bar.

NRCS Natural Resources Conservation Service

Contact Us | Download | Logout | Help

Web Soil Survey

Area of Interest

Quick Navigation

Navigate By...

- Address
- County
- Soil Survey Area
- Latitude and Longitude
- PLSS (Township and Range)
- Hydrologic Unit

Area of Interest Interactive Map

View Extent

Scale

207.4m

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Navigate to AOI by Address

United States Department of Agriculture
NRCS Natural Resources Conservation Service

[Contact Us](#) | [Download Soils Data](#) | [Preferences](#) | [Logout](#) | [Help](#)

Area of Interest | [Soil Map](#) | [Soil Data Explorer](#)

Quick Navigation

Navigate By...

Address

?

Address

City

State

Zip Code

Show **Postal Code** Layer in Map ☐

County

Soil Survey Area

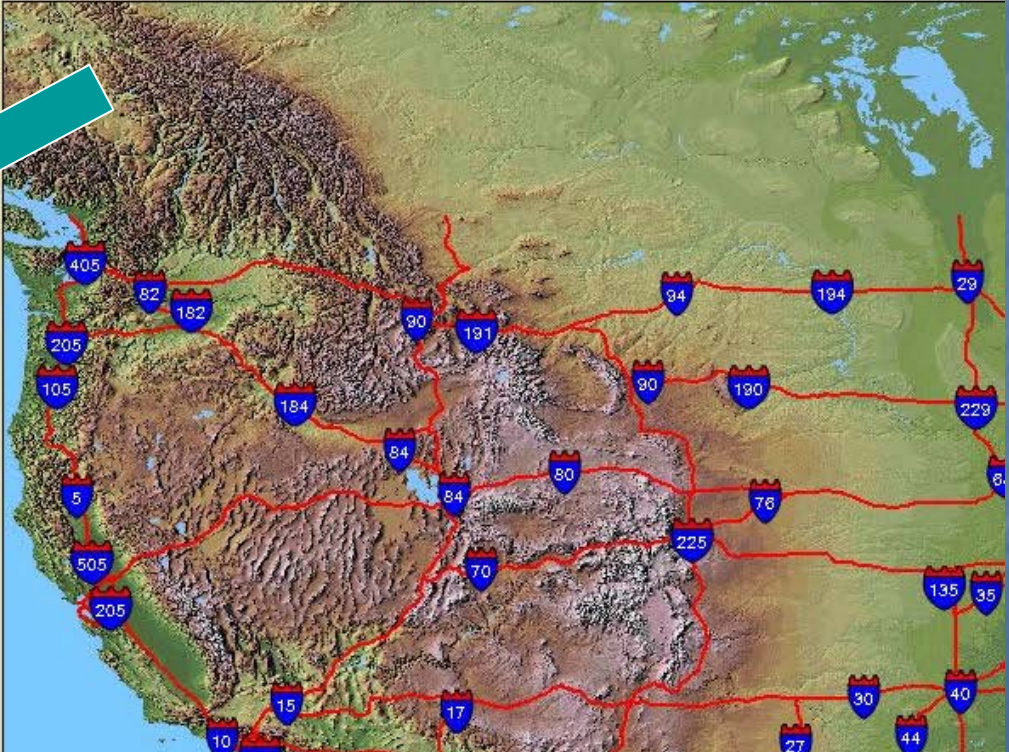
Latitude and Longitude

PLSS (Township and Range)

Hydrologic Unit

Area of Interest Interactive Map

Continental U.S.



View by Address

United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Preferences | Logout | Help

Area of Interest | Soil Map | Soil Data Explorer

Quick Navigation

Navigate By...

Address

View ?

Address: 11000 Rocky Ridge Rd

City:

State:

Zip Code: 68526

Show Postal Code Layer in Map ☐

View

County

Soil Survey Area

Latitude and Longitude

PLSS (Township and Range)

Hydrologic Unit

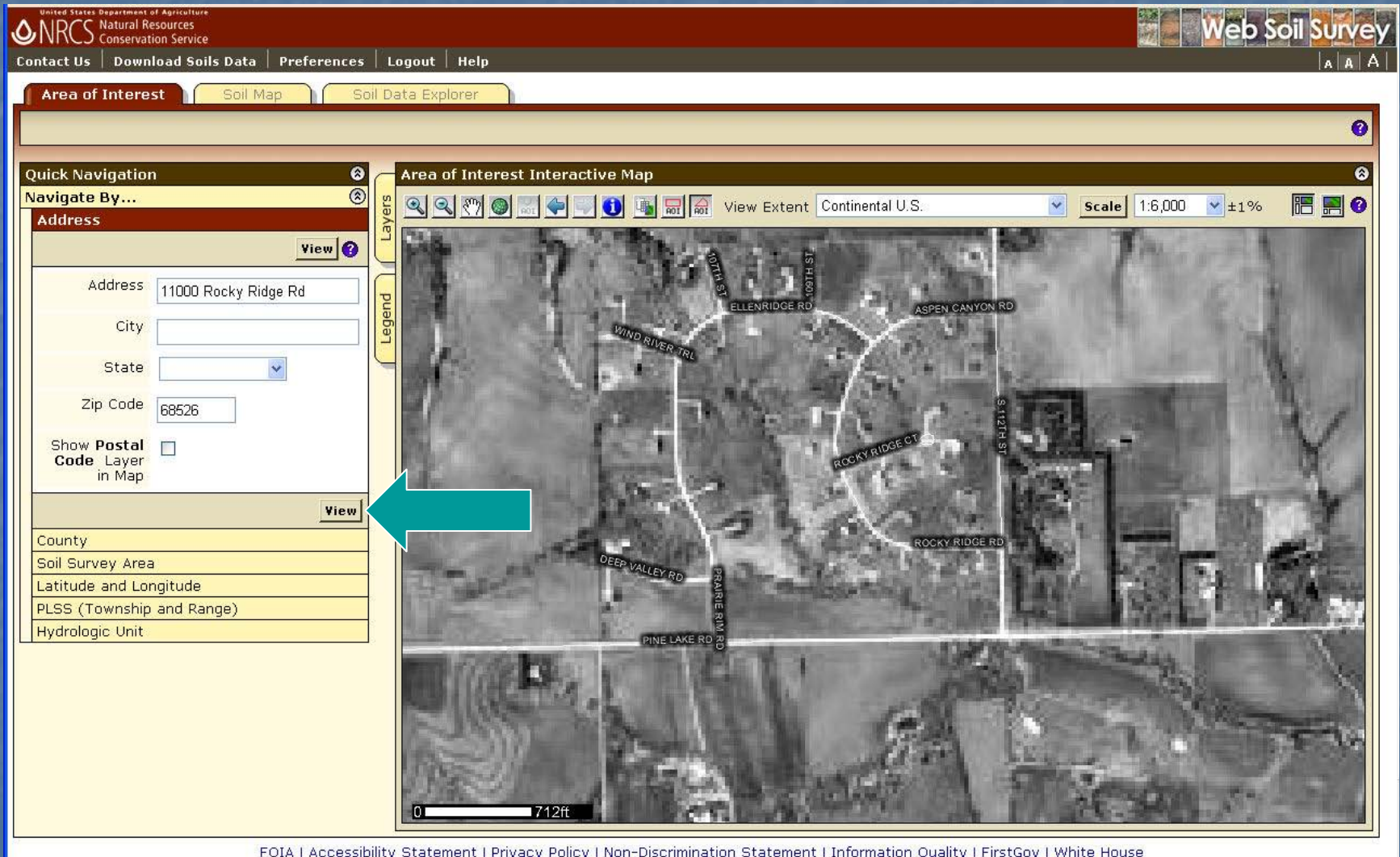
Area of Interest Interactive Map

Layers Legend

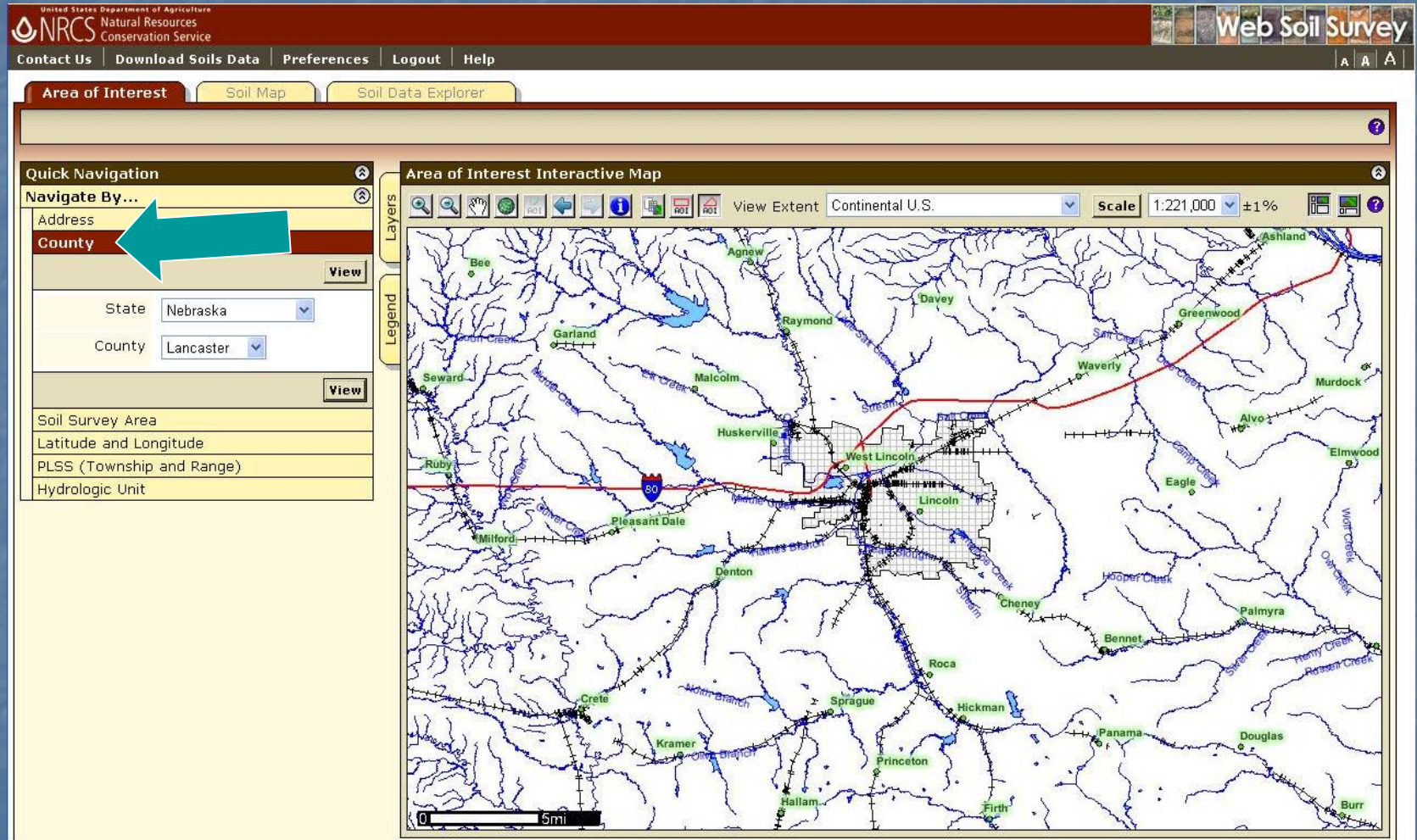
View Extent: Continental U.S. Scale: 1:6,000 ±1%

Map showing roads: WIND RIVER TRL, ELLENRIDGE RD, ASPEN CANYON RD, ROCKY RIDGE CT, ROCKY RIDGE RD, DEEP VALLEY RD, PINE LAKE RD, 10TH ST, 109TH ST, S 112TH ST, PRAIRIE RIM RD.

Scale bar: 0 to 712ft



Navigate to AOI by County



Select AOI by Survey Area

United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Preferences | Logout | Help

Area of Interest | Soil Map | Soil Data Explorer

Quick Navigation

Navigate By...

Address

County

Soil Survey Area

View Set AOI

State: Nebraska

County (optional):

Soil Survey Area: Adams County, Nebraska

Show Soil Survey Areas Layer in Map: ☐

View Set AOI

Latitude and Longitude

PLSS (Township and Range)

Hydrologic Unit

Area of Interest Interactive Map

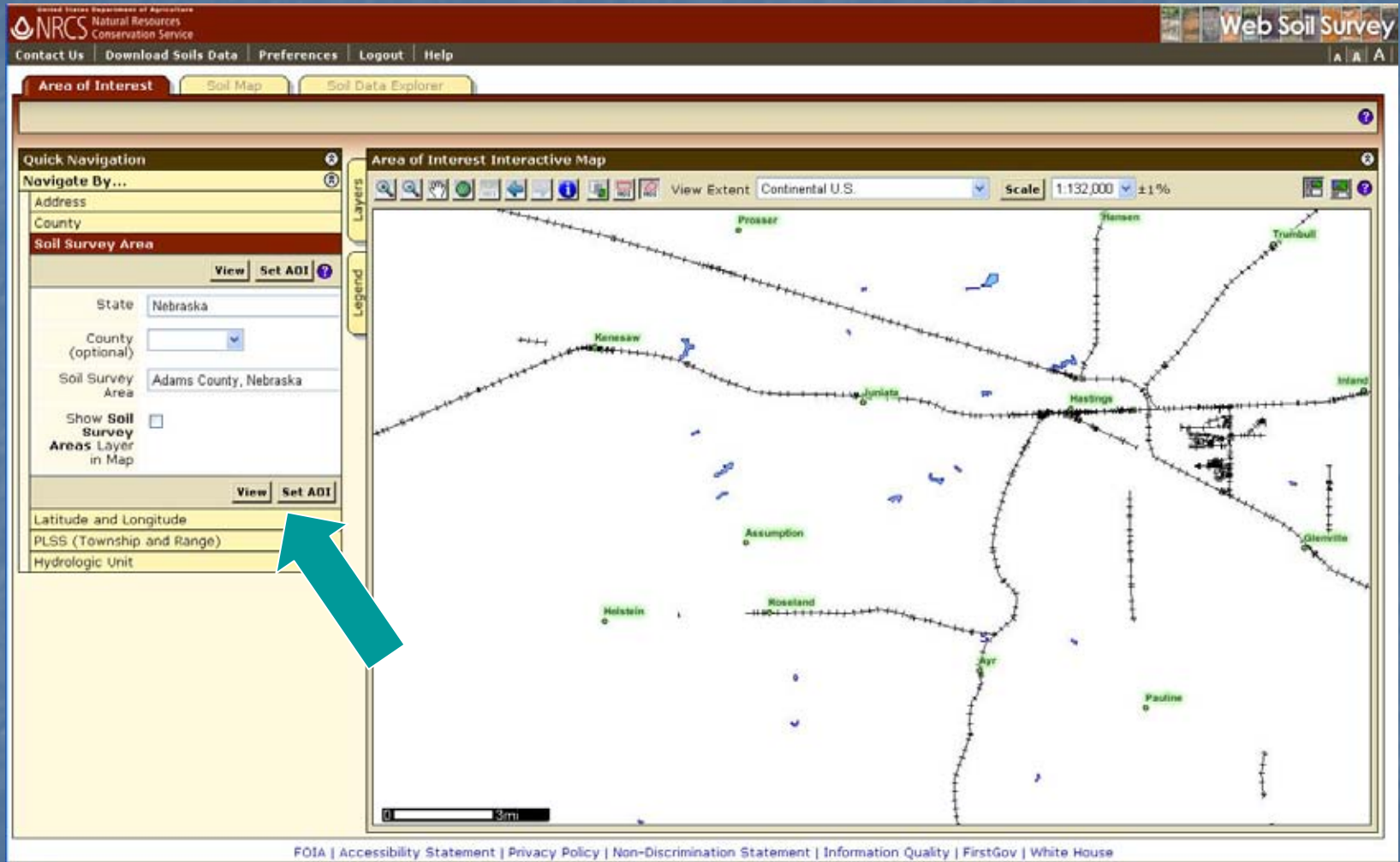
View Extent: Continental U.S. Scale: 1:132,000 ±1%

Layers

Legend

Map showing various locations including Prosser, Hansen, Trumbull, Inland, Glenville, Pauline, Assumption, Roseland, Holstein, and Juntura. A scale bar indicates 0 to 3 miles.

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Select AOI by Latitude and Longitude

The screenshot displays the NRCS Web Soil Survey interface. The top navigation bar includes links for 'Contact Us', 'Download Soils Data', 'Preferences', 'Logout', and 'Help'. The main content area is divided into a left sidebar and a central map area.

Left Sidebar:

- Quick Navigation:** Includes 'Navigate By...' with options for Address, County, Soil Survey Area, and **Latitude and Longitude** (selected).
- Latitude and Longitude Section:**
 - Use Degrees/Minutes/Seconds View:** A button to toggle the input format.
 - Latitude:** Input field for 'Decimal Degrees' with the value '40.8247'.
 - Longitude:** Input field for 'Decimal Degrees' with the value '-96.7778'.
 - Use Degrees/Minutes/Seconds View:** A button to toggle the input format.
 - PLSS (Township and Range):** An input field.
 - Hydrologic Unit:** An input field.

Central Map Area:

- Area of Interest Interactive Map:** The main map display.
- View Extent:** A dropdown menu set to 'Continental U.S.'.
- Scale:** A dropdown menu set to '1:5,330' with a '±1%' indicator.
- Map:** A grayscale aerial photograph showing a rural landscape with fields and a road.
- Scale Bar:** Located at the bottom left of the map, showing a distance of 635ft.

Callout Box: A teal box with a white arrow pointing to the 'Longitude' input field. The text inside reads: 'For an area in within the continental U.S., enter a negative decimal degree in longitude.'

Footer: A row of links: 'FOIA | Accessibility Statement | Privacy Policy | Non-Discrimination Statement | Information Quality | FirstGov | White House'.

Set AOI by PLSS (Township and Range)

United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Preferences | Logout | Help

Area of Interest | Soil Map | Soil Data Explorer

Quick Navigation

Navigate By...

Address

County

Soil Survey Area

Latitude and Longitude

PLSS (Township and Range)

View

State: Nebraska

Principal Meridian: Sixth Principal

View Meridian Map

Township: 9 North

Range: 7 East

Show Township and Range Layer in Map

View

Hydrologic Unit

Area of Interest Interactive Map

View Extent: Continental U.S.

Scale: 1:47,300 ±1%

0 5026ft

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Zoom In

United States Department of Agriculture
NRCS Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Preferences | Logout | Help

Area of Interest | Soil Map | Soil Data Explorer

Quick Navigation

Navigate By...

Address
County
Soil Survey Area
Latitude and Longitude
PLSS (Township and Range)

State: Nebraska

Principal Meridian: Sixth Principal
[View Meridian Map](#)

Township: 9 North
Range: 7 East

Show Township and Range Layer in Map ☐

[View](#)

Hydrologic Unit

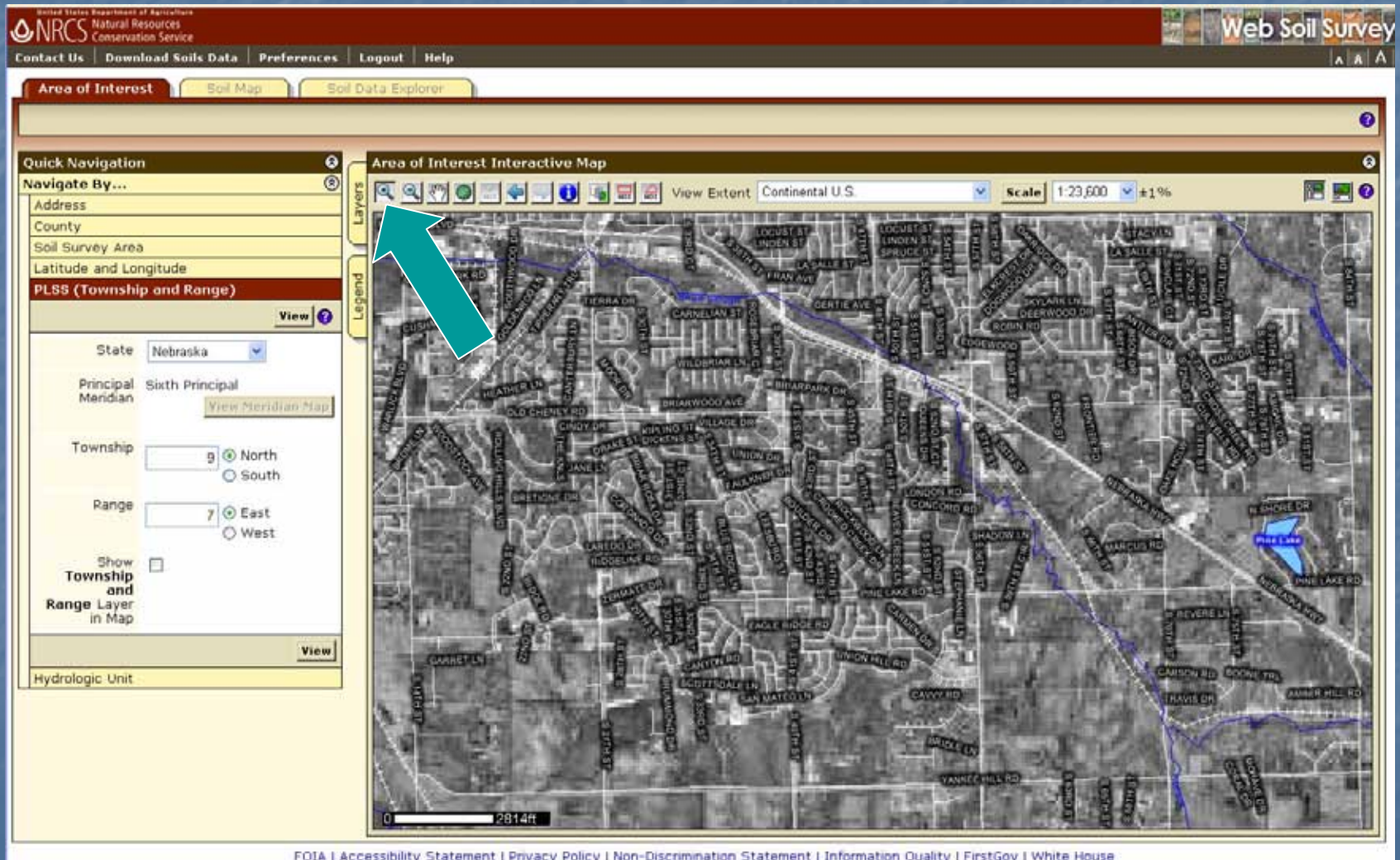
Area of Interest Interactive Map

Layers Legend

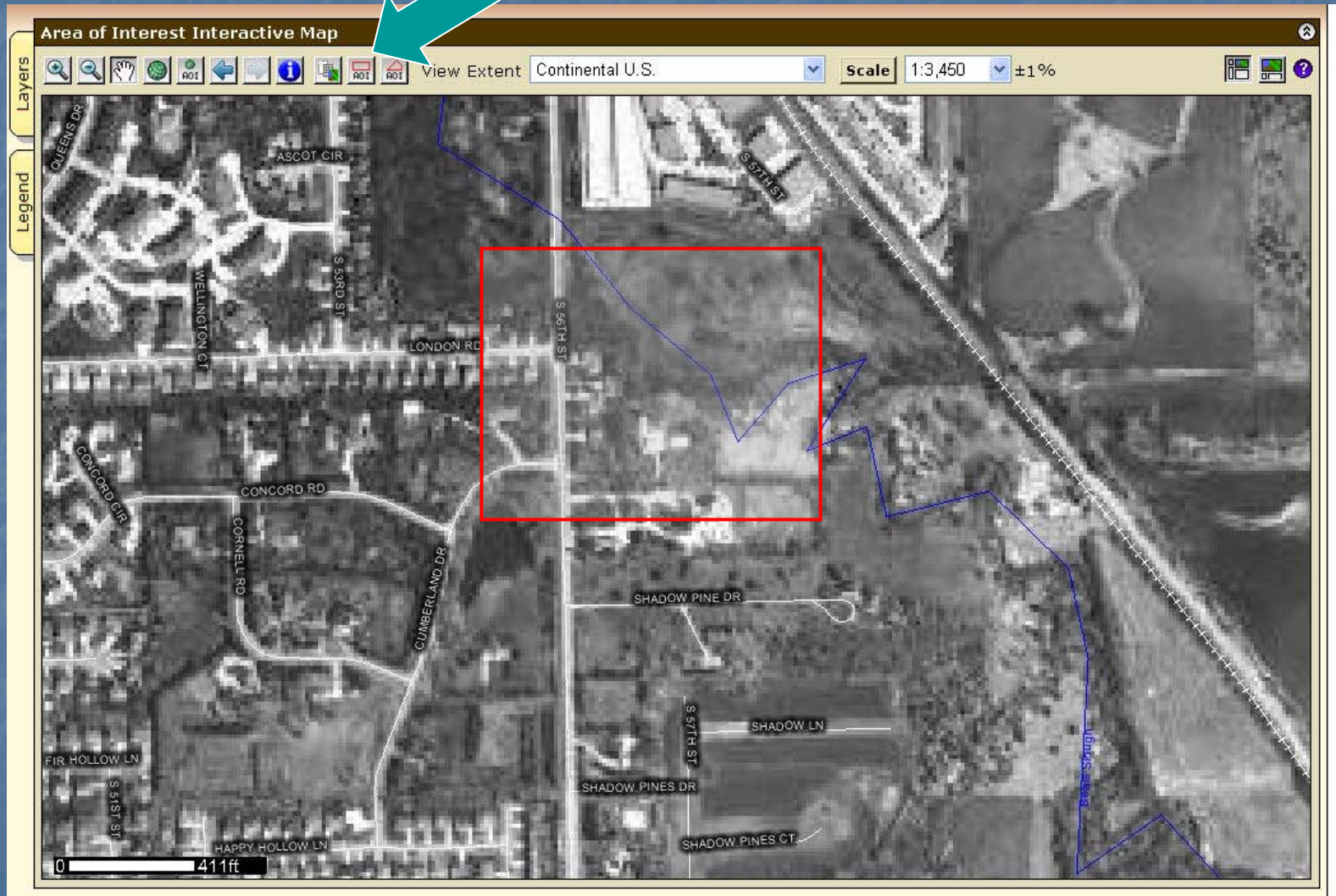
View Extent: Continental U.S. Scale: 1:23,600 ±1%

0 2814ft

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Set AOI – draw rectangle



Selected AOI

United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Preferences | Logout | Help

Area of Interest | Soil Map | Soil Data Explorer

Area of Interest Properties

[Clear AOI](#)

AOI Information

Name:

Area (acres): 146.0

Soil Data Available from Web Soil Survey

Longaster County, Nebraska (NE109)

Soil Maps: ☒ yes

Soil Data: ☒ yes

Archived Soil Survey Publication: Manuscript ☐ no, Maps ☐ no

[Clear AOI](#)

Quick Navigation

Navigate By...

Address

County

Soil Survey Area

Latitude and Longitude

PLSS (Township and Range)

[View](#)

State:

Principal Meridian: Sixth Principal [View Meridian Map](#)

Township: ☒ North ☐ South

Range: ☒ East ☐ West

Area of Interest Interactive Map

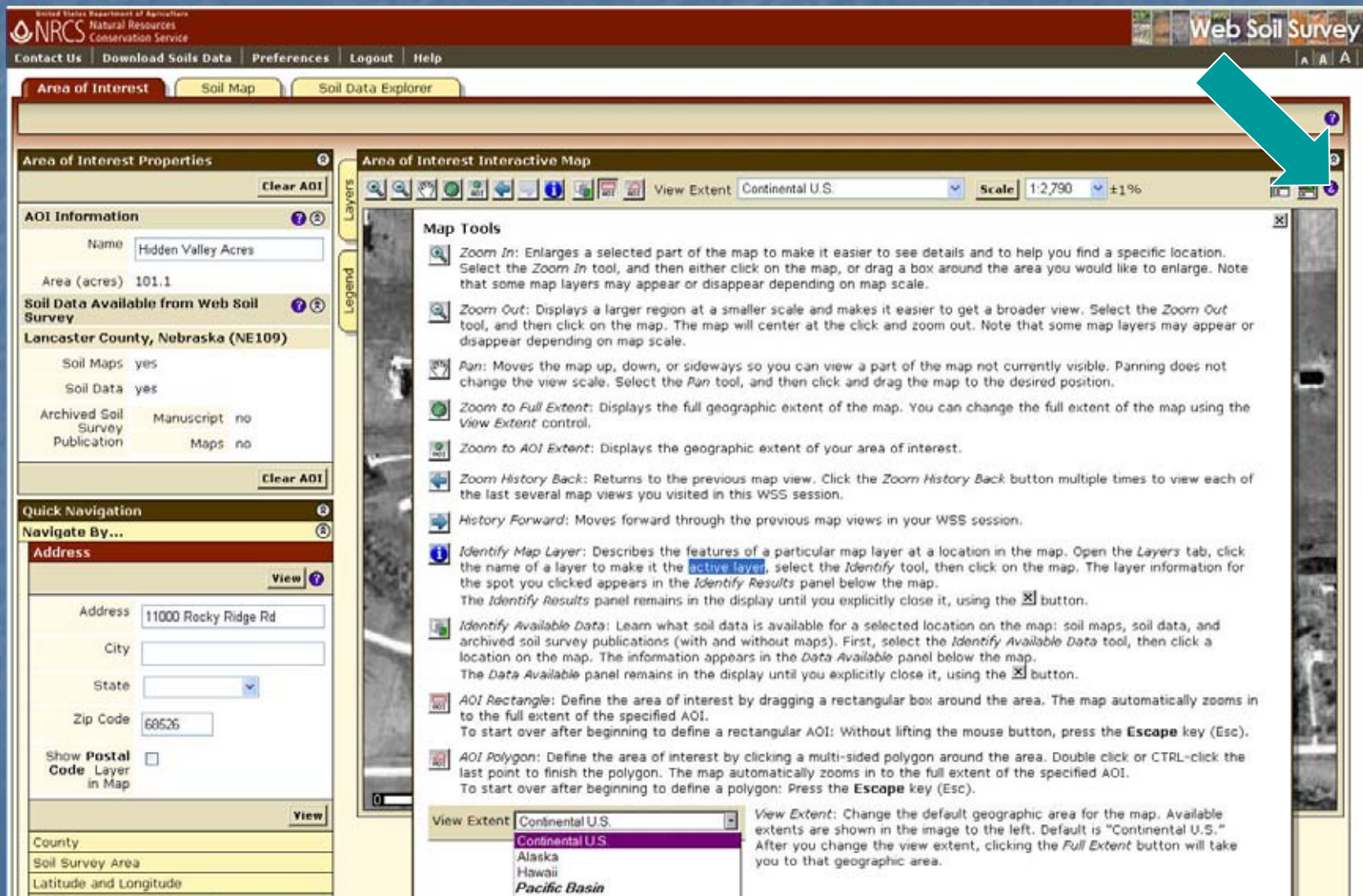
View Extent: Continental U.S. | Scale: 1:6,190 ±1%

The map displays a residential area with numerous streets. A green hatched rectangle highlights the selected Area of Interest (AOI). The map includes a scale bar at the bottom left indicating 0 to 732 feet. The map is titled 'Area of Interest Interactive Map' and shows the 'View Extent' as 'Continental U.S.' and the 'Scale' as '1:6,190 ±1%'.

Set AOI

- Remember - you must specifically set the AOI before proceeding to view any maps or data.
 - Use one of the AOI buttons on toolbar
 - Select the area by choosing a Soil Survey Area, then clicking the Set AOI button.
 - This option will be available for other selection criteria in the future.

AOI Interactive Map - Help



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NRCS Natural Resources Conservation Service

Contact Us | Download Soils Data | Preferences | Logout | Help

Area of Interest | Soil Map | Soil Data Explorer

Area of Interest Properties

Clear AOI

AOI Information

Name: Hidden Valley Acres

Area (acres): 101.1

Soil Data Available from Web Soil Survey

Lancaster County, Nebraska (NE109)

Soil Maps: yes

Soil Data: yes

Archived Soil Survey Publication: Manuscript no, Maps no

Clear AOI

Quick Navigation

Navigate By...

Address

View

Address: 11000 Rocky Ridge Rd

City:

State:

Zip Code: 68526

Show Postal Code Layer in Map: ☐

View

County:

Soil Survey Area:

Latitude and Longitude:

Area of Interest Interactive Map

View Extent: Continental U.S. | Scale: 1:2,790 | ±1%

Map Tools

- Zoom In:** Enlarges a selected part of the map to make it easier to see details and to help you find a specific location. Select the *Zoom In* tool, and then either click on the map, or drag a box around the area you would like to enlarge. Note that some map layers may appear or disappear depending on map scale.
- Zoom Out:** Displays a larger region at a smaller scale and makes it easier to get a broader view. Select the *Zoom Out* tool, and then click on the map. The map will center at the click and zoom out. Note that some map layers may appear or disappear depending on map scale.
- Pan:** Moves the map up, down, or sideways so you can view a part of the map not currently visible. Panning does not change the view scale. Select the *Pan* tool, and then click and drag the map to the desired position.
- Zoom to Full Extent:** Displays the full geographic extent of the map. You can change the full extent of the map using the *View Extent* control.
- Zoom to AOI Extent:** Displays the geographic extent of your area of interest.
- Zoom History Back:** Returns to the previous map view. Click the *Zoom History Back* button multiple times to view each of the last several map views you visited in this WSS session.
- History Forward:** Moves forward through the previous map views in your WSS session.
- Identify Map Layer:** Describes the features of a particular map layer at a location in the map. Open the *Layers* tab, click the name of a layer to make it the *active layer*, select the *Identify* tool, then click on the map. The layer information for the spot you clicked appears in the *Identify Results* panel below the map. The *Identify Results* panel remains in the display until you explicitly close it, using the **X** button.
- Identify Available Data:** Learn what soil data is available for a selected location on the map: soil maps, soil data, and archived soil survey publications (with and without maps). First, select the *Identify Available Data* tool, then click a location on the map. The information appears in the *Data Available* panel below the map. The *Data Available* panel remains in the display until you explicitly close it, using the **X** button.
- AOI Rectangle:** Define the area of interest by dragging a rectangular box around the area. The map automatically zooms in to the full extent of the specified AOI. To start over after beginning to define a rectangular AOI: Without lifting the mouse button, press the **Escape** key (Esc).
- AOI Polygon:** Define the area of interest by clicking a multi-sided polygon around the area. Double click or CTRL-click the last point to finish the polygon. The map automatically zooms in to the full extent of the specified AOI. To start over after beginning to define a polygon: Press the **Escape** key (Esc).

View Extent: Continental U.S. | Continental U.S. | Alaska | Hawaii | Pacific Basin

View Extent: Change the default geographic area for the map. Available extents are shown in the image to the left. Default is "Continental U.S." After you change the view extent, clicking the *Full Extent* button will take you to that geographic area.

View Soil Map

United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Preferences | Logout | Help

Area of Interest | Soil Map | Soil Data Explorer

Area of Interest

Clear AOI

AOI Name: Hidden Valley Acres

Area (acres): 101.1

Soil Data Available from Web Soil Survey

LANCASTER COUNTY, NEBRASKA (NE109)

Soil Maps: yes

Soil Data: yes

Archived Soil Survey Publication: Manuscript no, Maps no

Clear AOI

Quick Navigation

Navigate By...

Address

View

Address: 11000 Rocky Ridge Rd

City:

State:

Zip Code: 68526

Show Postal Code Layer in Map: ☐

View

County:

Soil Survey Area:

Latitude and Longitude:

PLSS (Township and Range):

Hydrologic Unit:

Area of Interest Interactive Map

View Extent: Continental U.S.

Scale: 1:2,790 ±1%

Layers

Legend

Map showing an aerial view of a rural area with a green hatched overlay indicating the Area of Interest. Roads labeled include ROCKY RIDGE RD, HIDDEN VALLEY RD, and ROCKY RIDGE RD. A scale bar indicates 332m.

Soil Map

United States Department of Agriculture
Natural Resources Conservation Service
Web Soil Survey

Contact Us | Download Soils Data | Preferences | Logout | Help

Area of Interest | **Soil Map** | Soil Data Explorer

Create Printable Document

Map Unit Legend Summary

Lancaster County, Nebraska

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BpF	Burchard-Nodaway complex, 2 to 30 percent slopes	5.2	5.2
BrD	Burchard clay loam, 6 to 11 percent slopes	1.2	1.2
Cp	Colo-Nodaway silty clay loams, 0 to 2 percent slopes	7.5	7.4
JuC	Judson silt loam, 2 to 6 percent slopes	10.1	10.0
Ns	Nodaway silt loam, 0 to 2 percent slopes	1.6	1.6
Ns	Nodaway silt loam, channeled	0.8	0.8
PaC2	Pawnee clay loam, 2 to 7 percent slopes, eroded	56.1	55.5
PbC3	Pawnee clay, 2 to 7 percent slopes, severely eroded	2.8	2.8
ShC	Aksarben silty clay loam, 2 to 5 percent slopes	3.0	2.9
ShD	Aksarben silty clay loam, 5 to 9 percent slopes	6.3	6.2
W	Water	1.0	1.0
WtC2	Wymore silty clay loam, 3 to 7 percent slopes, eroded	5.4	5.4

Soil Map

Scale: 1:3,000 41%

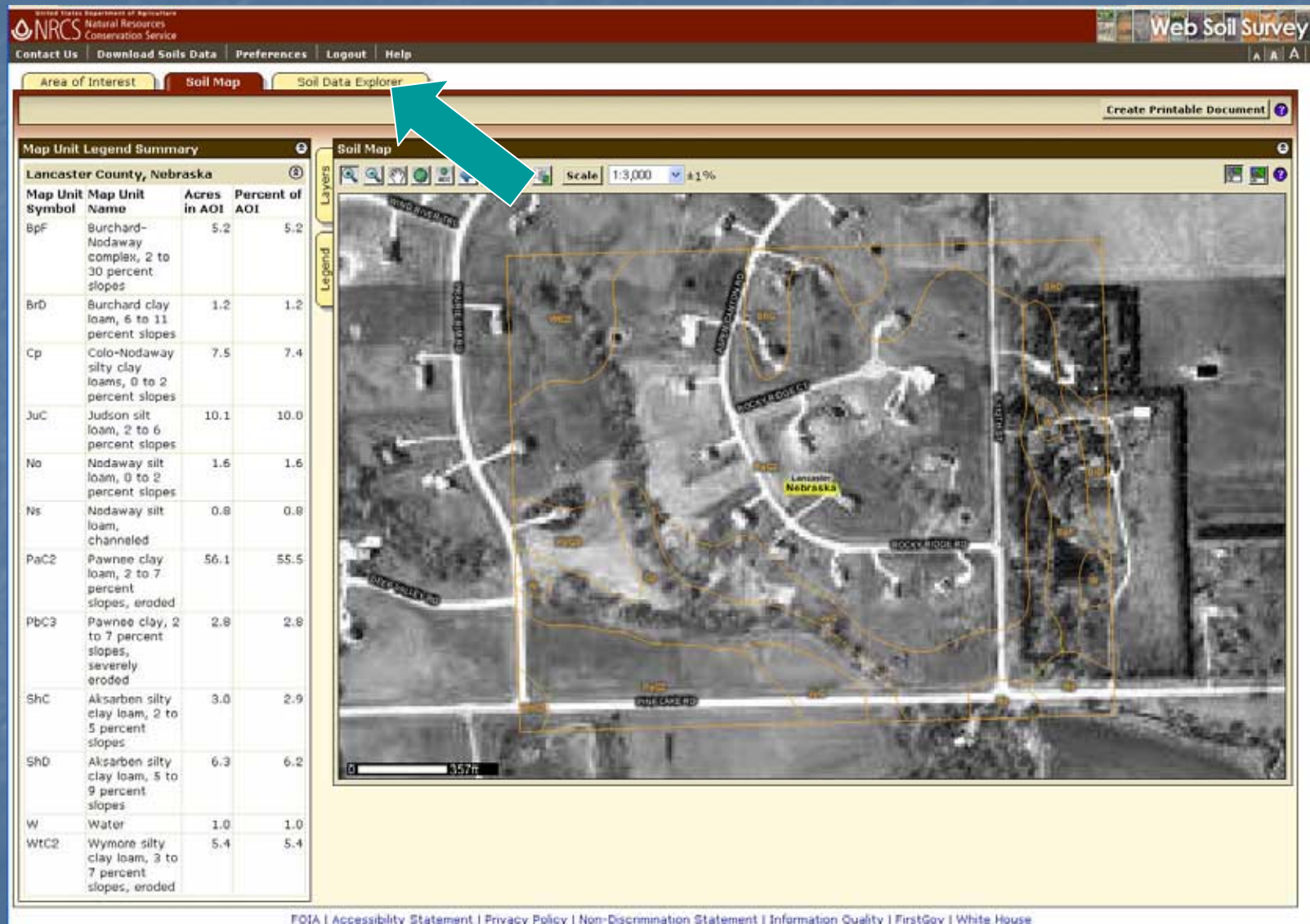
0 357ft

Map Unit Legend Summary

FOIA | Accessibility Statement | Privacy Policy | Non-Discrimination Statement | Information Quality | FirstGov | White House

Click on "Create Printable Document" to view, save or print data as PDF

Explore Soil Information



Soil Data Explorer Features

- Filter the soil information by land use category
- Learn the terminology and concepts of soils and specific land uses
- View interpretive soil data and soil properties in the form of thematic maps, tables, and text description
- Access ecological site information
- Print maps and reports

Soil Data Explorer - Help

The screenshot displays the 'Web Soil Survey' interface, specifically the 'Soil Data Explorer' tab. The top navigation bar includes links for 'Contact Us', 'Download Soils Data', 'Preferences', 'Logout', and 'Help'. Below this, a secondary bar shows 'Area of Interest', 'Soil Map', and the active 'Soil Data Explorer' tab. A dropdown menu for 'View Soil Information for:' is set to 'All Uses'. The main content area is divided into two columns. The left column, titled 'Table of Contents', lists various topics under 'Introduction to Soils' and 'Information for Land Users'. The right column, titled 'Explore.', contains instructional text and a 'View Soil Information for:' dropdown menu with options like 'All Uses', 'Cropland', 'Forestland', 'Hayland/Pastureland', 'Horticulture', 'Rangeland' (highlighted), 'Recreation', and 'Urban'. At the bottom of the right column, there are buttons for 'Intro to Soils', 'Suitabilities and Limitations for Use', 'Soil Properties and Qualities', 'Soil Reports', and 'Soil Survey Publications'. A teal arrow points to the 'Create Printable Document' button located in the top right corner of the main content area.

United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Download Soils Data | Preferences | Logout | Help

Area of Interest | Soil Map | **Soil Data Explorer**

View Soil Information for: All Uses

Table of Contents

- Introduction to Soils
 - Soils 101
 - What is soil? (less technical)
 - What is soil? (more technical)
 - How does soil form?
 - Parent Material
 - Climate
 - Living organisms
 - Landscape position
 - Time
 - What are soil horizons?
 - What is a soil scientist?
 - What is a soil survey?
 - Who uses a soil survey?
 - What is a map unit?
 - What is a consociation, complex, association, undifferentiated group, or miscellaneous area?
 - What is an Official Series Description?
 - Information for Land Users
 - Homebuyers
 - Land Use Planners
 - Appraisers
 - Developers and Builders
 - Waste Disposal Entities
 - Septic tank absorption fields
 - Sewage lagoons
 - Sanitary landfills
 - Disposing of other kinds of waste
 - Park Boards and Recreation Area Planners
 - Why soil data are needed
 - Selecting recreation areas
 - Maintaining recreation areas
 - Construction Engineers
 - Determining soil hazards
 - How soil surveys can help engineers
 - Farmers and Ranchers
 - How soil surveys can help farmers
 - How soil surveys can help ranchers
 - What soil data are available?

Intro to Soils

Viewing Topics

A Table of Contents appears in the navigation panel to the left.

- Click an item in the Table of Contents to make it the active topic.
- To view an entire section, click the name of the section title.

Saving or Printing Topics

Choose the topics you want to view, so they appear in the view window.

Explore.

Soil Data Explorer

The third step in using Web Soil Survey is to explore all of the available information about your area of interest.

The Soil Data Explorer tab provides several ways of getting the information relevant to you.

Finding relevant information

You can view soil information about a specific use, such as cropland, forestland, rangeland, urban development, and so forth, by selecting the use from the drop-down list on the button bar.

View Soil Information for: All Uses

- All Uses
- Cropland
- Forestland
- Hayland/Pastureland
- Horticulture
- Rangeland**
- Recreation
- Urban

To get a particular type of soil information, use the Soil Data Explorer's inner tabs:

Intro to Soils | **Suitabilities and Limitations for Use** | **Soil Properties and Qualities** | **Soil Reports** | **Soil Survey Publications**

Depending on the use category that you select from the drop-down list, the tabs and the contents of the tabs will change.

Printing or saving the information you want

In Web Soil Survey, you select information in the left column and view it in the right column. When you want to print or save the information in the right column, click the **Create Printable Document** button:

Create Printable Document

Soil Data Explorer - Intro

The screenshot displays the NRCS Web Soil Survey interface, specifically the Soil Data Explorer section. The top navigation bar includes links for Contact Us, Download Soils Data, Preferences, Logout, and Help. Below this, the 'Area of Interest' tab is selected, showing a dropdown menu for 'View Soil Information for: All Uses'. The main content area is divided into two panels. The left panel, titled 'Table of Contents', lists various topics under 'Intro to Soils', including 'Soils 101', 'What is soil?', 'How does soil form?', 'Parent Material', 'Climate', 'Living organisms', 'Landscape position', 'Time', 'What are soil horizons?', 'What is a soil scientist?', 'What is a soil survey?', 'Who uses a soil survey?', 'What is a map unit?', 'What is a consociation, complex, association, undifferentiated group, or miscellaneous area?', 'What is an Official Series Description?', 'Information for Land Users', 'Homebuyers', 'Land Use Planners', 'Appraisers', 'Developers and Builders', 'Waste Disposal Entities', 'Septic tank absorption fields', 'Sewage lagoons', 'Sanitary landfills', 'Disposing of other kinds of waste', 'Park Boards and Recreation Area Planners', 'Why soil data are needed', 'Selecting recreation areas', 'Maintaining recreation areas', 'Construction Engineers', 'Determining soil hazards', 'How soil surveys can help engineers', 'Farmers and Ranchers', 'How soil surveys can help farmers', 'How soil surveys can help ranchers', and 'What soil data are available?'. The right panel, titled 'Intro to Soils', contains a 'Viewing Topics' section with instructions on how to use the Table of Contents and a 'Saving or Printing Topics' section with instructions on how to save or print topics.

NRCS National Resources Conservation Service

Contact Us | Download Soils Data | Preferences | Logout | Help

Area of Interest | Soil Map | **Soil Data Explorer**

View Soil Information for: All Uses

Create Printable Document

Table of Contents

- Introduction to Soils
 - Soils 101
 - What is soil? (less technical)
 - What is soil? (more technical)
 - How does soil form?
 - Parent Material
 - Climate
 - Living organisms
 - Landscape position
 - Time
 - What are soil horizons?
 - What is a soil scientist?
 - What is a soil survey?
 - Who uses a soil survey?
 - What is a map unit?
 - What is a consociation, complex, association, undifferentiated group, or miscellaneous area?
 - What is an Official Series Description?
- Information for Land Users
 - Homebuyers
 - Land Use Planners
 - Appraisers
 - Developers and Builders
- Waste Disposal Entities
 - Septic tank absorption fields
 - Sewage lagoons
 - Sanitary landfills
 - Disposing of other kinds of waste
- Park Boards and Recreation Area Planners
 - Why soil data are needed
 - Selecting recreation areas
 - Maintaining recreation areas
- Construction Engineers
 - Determining soil hazards
 - How soil surveys can help engineers
- Farmers and Ranchers
 - How soil surveys can help farmers
 - How soil surveys can help ranchers
 - What soil data are available?

Intro to Soils

Viewing Topics

A Table of Contents appears in the navigation panel to the left.

- Click an item in the Table of Contents to make it the **active topic** and view its content.
- To view an entire section, click the name of the section that contains the topics you want to view.

Saving or Printing Topics

Choose the topics you want to view, so they appear in the view panel, and then click **Create Printable Document**.

Suitabilities and Limitations

The screenshot displays the Web Soil Survey interface. At the top, the NRCS logo and navigation links (Contact Us, Download Soils Data, Preferences, Logout, Help) are visible. The main navigation bar includes tabs for Area of Interest, Soil Map, and Soil Data Explorer. The 'Soil Data Explorer' tab is active, showing a dropdown for 'View Soil Information for: All Uses' and a 'Create Printable Document' button.

The 'Suitabilities and Limitations for Use' section is expanded, showing a list of categories on the left and an 'Instructions' panel on the right. The 'Suitabilities and Limitations Ratings' section is also expanded, showing a list of categories on the left and a 'View Options' panel on the right. A teal arrow points to the 'Advanced Options' section.

Suitabilities and Limitations Ratings

Open All Close All

Building Site Development

- Corrosion Concrete
- Corrosion Steel

Dwellings With Basements

View Description View Ratings

View Options

Map ☒

Table ☒

☒ Component Breakdown and Rating Reasons

Description of Rating ☒

Rating Options ☒

☐ Detailed Description

Advanced Options

View Description View Ratings

Dwellings Without Basements

Lawn, Landscape, Golf Fairway

Local Roads and Streets

Shallow Excavations

Small Commercial Buildings

Construction Materials

Land Classifications

Land Management

Recreational Development

Sanitary Facilities

Vegetative Productivity

Waste Management

Water Management

Instructions

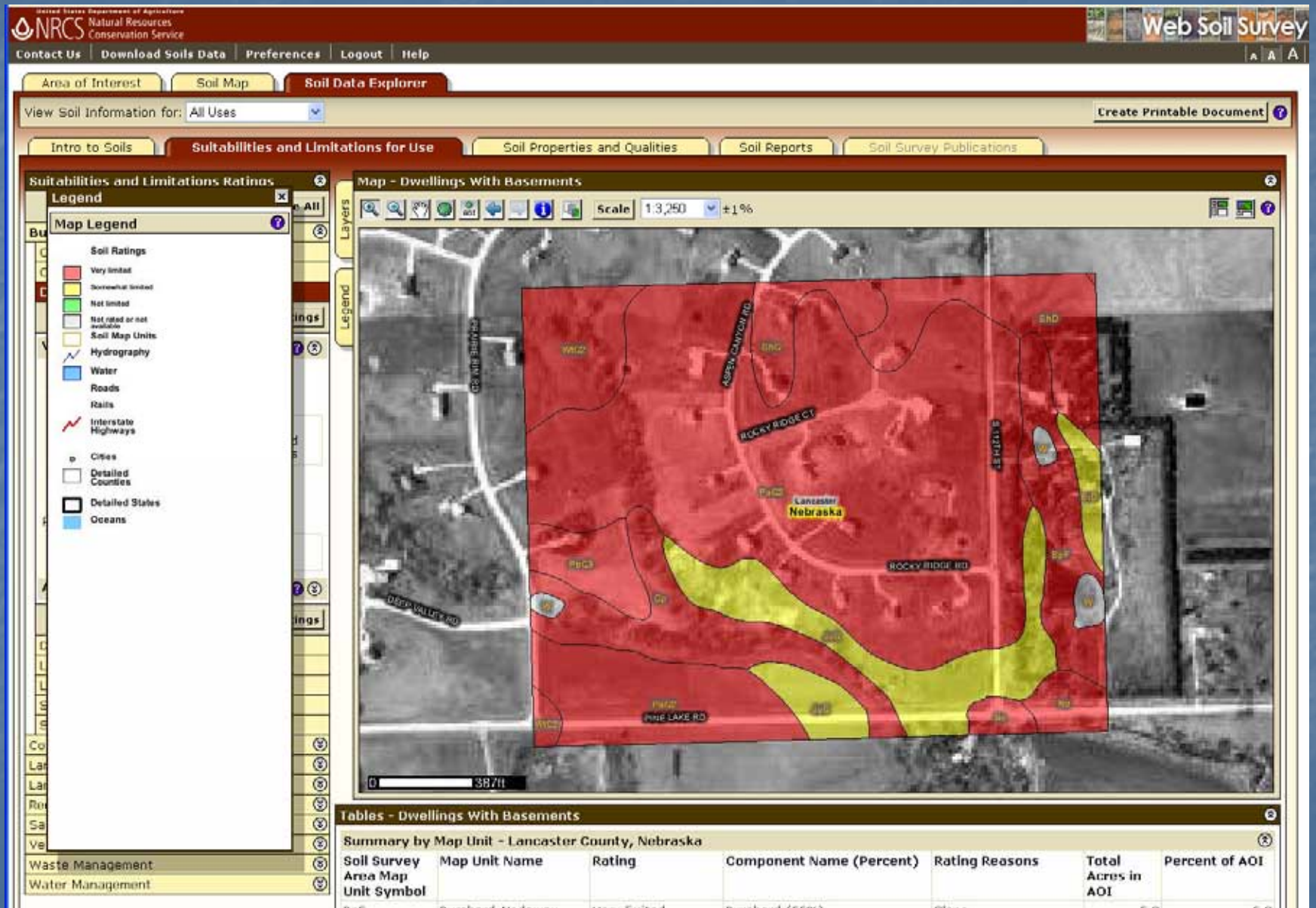
Viewing Suitabilities and Limitations Ratings

Suitabilities and limitations ratings are organized by category. Note that in cases where no ratings data is available for the AOI, folders and the ratings categories within folders may disappear.

1. Open a ratings category in the panel to the left, and select a rating.
2. To learn more about the rating, click **View Description**.
3. In the **View Options** pane, select the items you want to view. For more information, click the help button.
4. Optional: To change the aggregation method as well as other advanced parameters, click on the **Advanced Options** pane and make changes. For more information, click the help button.
5. When ready, click **View Ratings**.

Note: The ratings results you get in Web Soil Survey are identical to those in *Soil Data Viewer 5.0* or later.

Display Interpretive Map



Summary Report

Tables - Dwellings With Basements						
Summary by Map Unit - Lancaster County, Nebraska						
Soil Survey Area Map Unit Symbol	Map Unit Name	Rating	Component Name (Percent)	Rating Reasons	Total Acres in AOI	Percent of AOI
BpF	Burchard-Nodaway complex, 2 to 30 percent slopes	Very limited	Burchard (55%) Nodaway, frequently flooded (45%)	Slope Flooding Depth to saturated zone	5.2	5.2
BrD	Burchard clay loam, 6 to 11 percent slopes	Somewhat limited	Burchard (100%)	Slope	1.2	1.2
Cp	Colo-Nodaway silty clay loams, 0 to 2 percent slopes	Very limited	Colo, occasionally flooded (60%) Nodaway, frequently flooded (40%)	Flooding Depth to saturated zone Shrink-swell Flooding Depth to saturated zone	7.5	7.4
JuC	Judson silt loam, 2 to 6 percent slopes	Somewhat limited	Judson (99%)	Shrink-swell	10.1	10.0
No	Nodaway silt loam, 0 to 2 percent slopes	Very limited	Nodaway, occasionally flooded (95%) Colo, occasionally flooded (5%)	Flooding Depth to saturated zone Flooding Depth to saturated zone Shrink-swell	1.6	1.6
Ns	Nodaway silt loam, channeled	Very limited	Nodaway, frequently flooded (95%) Colo, occasionally flooded (4%)	Flooding Depth to saturated zone Flooding Depth to saturated zone Shrink-swell	0.8	0.8
PaC2	Pawnee clay loam, 2 to 7 percent slopes, eroded	Very limited	Pawnee (100%)	Depth to saturated zone Shrink-swell	56.1	55.5
PbC3	Pawnee clay, 2 to 7 percent slopes, severely eroded	Very limited	Pawnee (100%)	Depth to saturated zone Shrink-swell	2.8	2.8
ShC	Aksarben silty clay loam, 2 to 5 percent slopes	Very limited	Aksarben (100%)	Shrink-swell	3.0	2.9
ShD	Aksarben silty clay loam, 5 to 9 percent slopes	Very limited	Aksarben (100%)	Shrink-swell	6.3	6.2
W	Water	Not rated	Water (100%)		1.0	1.0
WtC2	Wymore silty clay loam, 3 to 7 percent slopes, eroded	Very limited	Wymore (100%)	Depth to saturated zone Shrink-swell	5.4	5.4
Summary by Rating Value						
Rating	Total Acres in AOI		Percent of AOI			
Very limited			89.7		87.7	
Somewhat limited			11.4		11.2	
Not rated			1.0		1.0	
Description - Dwellings With Basements						
Dwellings are single-family houses of three stories or less. For dwellings with basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of about 7 feet.						
The ratings for dwellings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification. The properties that affect the ease and amount of excavation include depth to a water table, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.						

Interpretation Description and Rating Options

Description - Dwellings With Basements

Dwellings are single-family houses of three stories or less. For dwellings with basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of about 7 feet.

The ratings for dwellings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification. The properties that affect the ease and amount of excavation include depth to a water table, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect building site development. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Rating Options - Dwellings With Basements

Aggregation Method: Dominant Condition

Component Percent Cutoff:

Tie-break Rule: Higher

Soil Properties and Qualities

The screenshot displays the NRCS Web Soil Survey web application. The header includes the NRCS logo and navigation links: Contact Us, Download Soils Data, Preferences, Logout, and Help. The main navigation bar features tabs for Area of Interest, Soil Map, and Soil Data Explorer. Below this, a dropdown menu shows 'View Soil Information for: All Uses' with a 'Create Printable Document' link. The 'Soil Properties and Qualities' tab is selected, revealing a left sidebar with a tree view of rating categories: Soil Chemical Properties, Soil Erosion Factors, Soil Physical Properties, Soil Qualities and Features, and Water Features. The main content area, titled 'Instructions', provides guidance on viewing ratings, including steps for selecting categories, viewing descriptions, and viewing ratings. A note at the bottom states that the results are identical to those in Soil Data Viewer 5.0 or later. The footer contains links for FOIA, Accessibility Statement, Privacy Policy, Non-Discrimination Statement, Information Quality, FirstGov, and White House.

United States Department of Agriculture
NRCS Natural Resources Conservation Service

Contact Us | Download Soils Data | Preferences | Logout | Help

Area of Interest | Soil Map | **Soil Data Explorer**

View Soil Information for: All Uses [Create Printable Document](#)

Intro to Soils | Suitabilities and Limitations for Use | **Soil Properties and Qualities** | Soil Reports | Soil Survey Publications

Properties and Qualities Ratings [Open All](#) [Close All](#)

- Soil Chemical Properties
- Soil Erosion Factors
- Soil Physical Properties
- Soil Qualities and Features
- Water Features

Instructions

Viewing Soil Properties and Qualities Ratings

Soil properties and qualities ratings are organized by category. Note that in cases where no ratings data is available for the AOI, folders and the ratings categories within folders may disappear.

1. Open a ratings category in the panel to the left, and select a rating.
2. To learn more about the rating, click **View Description**.
3. In the **View Options** pane, select the items you want to view. For more information, click the help button.
4. Optional: To change the aggregation method as well as other advanced parameters, click on the **Advanced Options** pane and make changes. For more information, click the help button.
5. When ready, click **View Ratings**.

Note: The ratings results you get in Web Soil Survey are identical to those in [Soil Data Viewer 5.0](#) or later.

FOIA | Accessibility Statement | Privacy Policy | Non-Discrimination Statement | Information Quality | FirstGov | White House

Select Property or Quality

United States Department of Agriculture
NRCS Natural Resources Conservation Service

Web Soil Survey

Contact Us Download Soils Data Preferences Logout Help

Area of Interest Soil Map Soil Data Explorer

View Soil Information for: All Uses Create Printable Document

Intro to Soils Suitabilities and Limitations for Use Soil Properties and Qualities Soil Reports Soil Survey Publications

Properties and Qualities Ratings

Open All Close All

Soil Chemical Properties

Soil Erosion Factors

K Factor - Rock Free

K Factor - Whole Soil

T Factor

View Description View Ratings

View Options

Map ☒

Table ☒

Description of Rating ☒

Rating Options ☒

☐ Detailed Description

Advanced Options

Note: The Advanced Options are intended for the use of those with a more technical understanding of soils and soil science.

Aggregation Method

Component Percent Cutoff

Tie-break Rule

Interpret Nulls as Zero

Aggregation Method: Dominant Condition

Component Percent Cutoff:

Tie-break Rule: ☒ Lower ☐ Higher

Interpret Nulls as Zero: ☐ Yes ☒ No

View Description View Ratings

Wind Erodibility Group

Wind Erodibility Index

Soil Physical Properties

Soil Qualities and Features

Water Features

Instructions

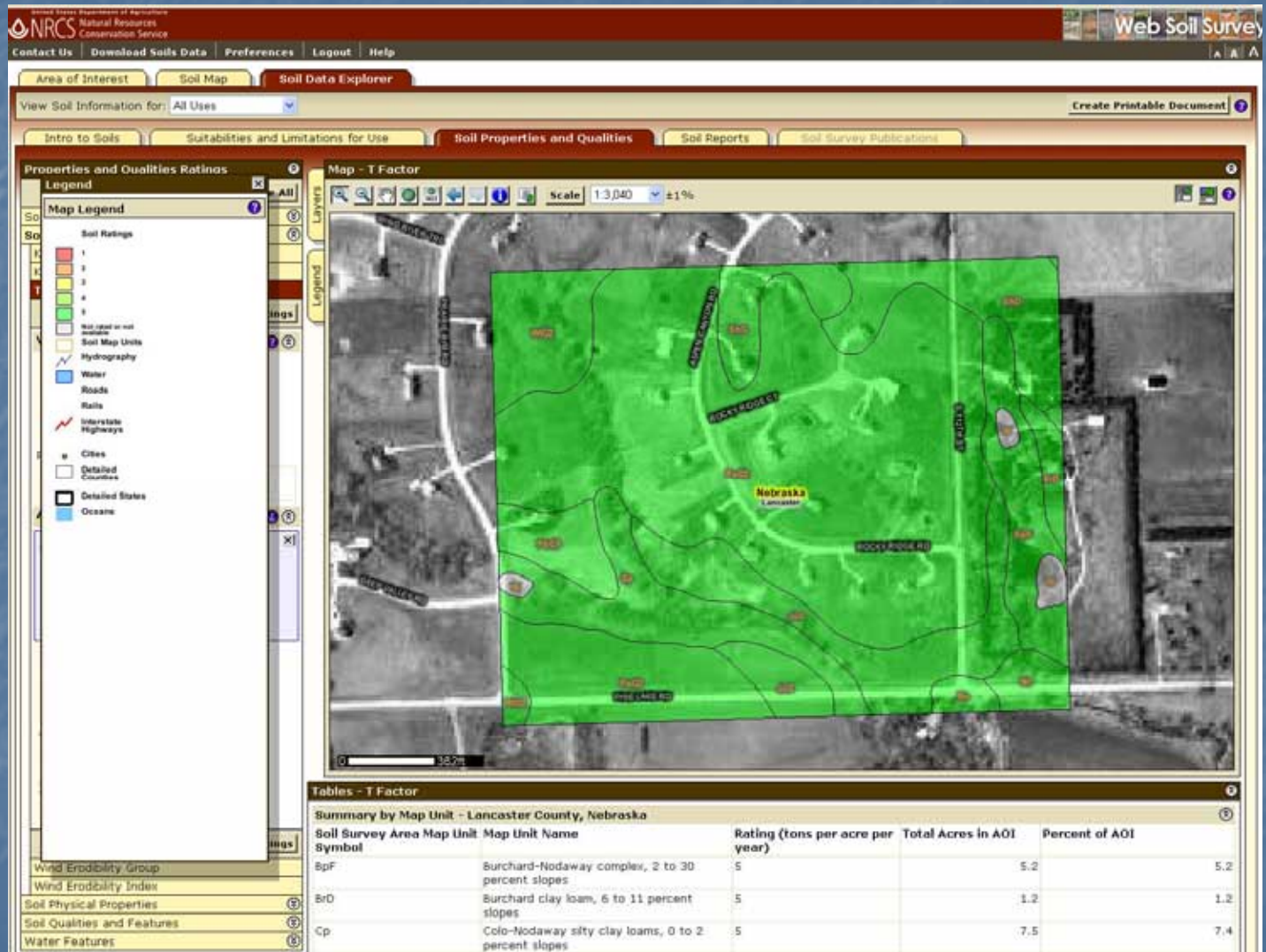
Viewing Soil Properties and Qualities Ratings

Soil properties and qualities ratings are organized by category. Note that in cases where no ratings data is available for the AOI, folders and the ratings categories may disappear.

1. Select a ratings category in the panel to the left, and select a rating.
2. To learn more about the rating, click **View Description**.
3. In the **View Options** pane, select the items you want to view. For more information, click the help button.
4. Optional: To change the aggregation method as well as other advanced parameters, click on the **Advanced Options** pane and make changes. For more information, click the help button.
5. When ready, click **View Ratings**.

Note: The ratings results you get in Web Soil Survey are identical to those in Soil Data Viewer 3.0 or later.

Display Results



Tables - T Factor

Summary by Map Unit - Lancaster County, Nebraska

Soil Survey Area Map Unit Symbol	Map Unit Name	Rating (tons per acre per year)	Total Acres in AOI	Percent of AOI
BpF	Burchard-Nodaway complex, 2 to 30 percent slopes	5	5.2	5.2
BrD	Burchard clay loam, 6 to 11 percent slopes	5	1.2	1.2
Cp	Colo-Nodaway silty clay loams, 0 to 2 percent slopes	5	7.5	7.4
JuC	Judson silt loam, 2 to 6 percent slopes	5	10.1	10.0
No	Nodaway silt loam, 0 to 2 percent slopes	5	1.6	1.6
Ns	Nodaway silt loam, channeled	5	0.8	0.8
PaC2	Pawnee clay loam, 2 to 7 percent slopes, eroded	5	56.1	55.5
PbC3	Pawnee clay, 2 to 7 percent slopes, severely eroded	5	2.8	2.8
ShC	Aksarben silty clay loam, 2 to 5 percent slopes	5	3.0	2.9
ShD	Aksarben silty clay loam, 5 to 9 percent slopes	5	6.3	6.2
W	Water	Null	1.0	1.0
WtC2	Wymore silty clay loam, 3 to 7 percent slopes, eroded	5	5.4	5.4

Description - T Factor

The T factor is an estimate of the maximum average annual rate of soil erosion by wind and/or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Rating Options - T Factor

T Factor Units of Measure: tons per acre per year

Aggregation Method: Dominant Condition

Component Percent Cutoff:

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Change Land Uses

The screenshot shows the Web Soil Survey website in Microsoft Internet Explorer. The browser's address bar displays <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>. The website header includes the NRCS logo and navigation links: Contact Us, Download Soils Data, Preferences, Logout, and Help. Below the header, there are tabs for Area of Interest, Soil Map, and Soil Data. The 'Soil Data' tab is selected, and a dropdown menu is open, showing a list of land uses: All Uses, Cropland, Forestland, Hayland/Pastureland, Horticulture, Rangeland, Recreation, and Urban. The 'Urban' option is highlighted. A teal arrow points to this dropdown menu. On the left side, there is a 'Table of Contents' for 'Urban Land', listing various topics such as 'Information for Suburban Land Users', 'Homebuyers', 'Land Use Planners', and 'What Soil Data Are Available?'. A teal arrow points to this table of contents. On the right side, there is a 'Viewing Topics' section with a list of topics. A teal arrow points to the 'Intro to Urban' tab, which is highlighted. A teal text box with the text 'List changes according to land use' points to the table of contents. Another teal text box with the text 'Tabs change' points to the 'Intro to Urban' tab. The bottom of the browser window shows the status bar with 'Done' and 'Trusted sites'.

Web Soil Survey - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

United States Department of Agriculture
NRCS Natural Resources Conservation Service

Contact Us Download Soils Data Preferences Logout Help

Area of Interest Soil Map Soil Data

View Soil Information for: Urban

Create Printable Document ?

Intro to Urban Suitability Limitations Properties and Qualities Soil Reports Soil Survey Publications

Table of Contents

- Urban Land
 - Information for Suburban Land Users
 - Homebuyers
 - Is flooding a hazard?
 - Are there other sources of water damage?
 - Will the house settle unevenly or the walls crack?
 - Will a septic tank absorption field work?
 - Is erosion a hazard?
 - Is the soil deep enough?
 - Are all soils more or less alike?
 - Remedies for soil hazards
 - Land Use Planners
 - How soil surveys can help land use planners
 - What Soil Data Are Available?
 - Urban Soil Uses and Interpretations
 - Urban Resources from the USDA-

Intro to Urban

Viewing Topics

A Table of Contents appears in the left panel. Click an item in the Table of Contents to view its content. To view an entire section, click the section that contains the topics you want to view.


Saving or Printing Topics

Choose the topics you want to view, so they appear in the view panel, and then click

Done Trusted sites

Intro to Rangeland

United States Department of Agriculture

 **NRCS**
Natural Resources
Conservation Service

[Contact Us](#) | [Download Soils Data](#) | [Preferences](#) | [Logout](#) | [Help](#)

Area of Interest

Soil Map

Soil Data Explorer

View Soil Information for: Rangeland ▼

Create Printable Document ?

Intro to Rangeland

Suitabilities and Limitations for Use

Soil Properties and Qualities

Ecological Site Assessment

Soil Reports

Soil Survey Publications

Table of Contents

- ▢ **Rangeland**
 - What is rangeland?**
 - What is range management?
 - What is an ecological site?
 - What is an ecological site description?
 - What is a historic climax plant community?
 - ▢ What is a similarity index?
 - How is similarity index calculated?
 - ▢ What is trend?
 - How is range trend determined?
 - ▢ What is rangeland health?
 - How is rangeland health evaluated?

Intro to Rangeland

What is rangeland?

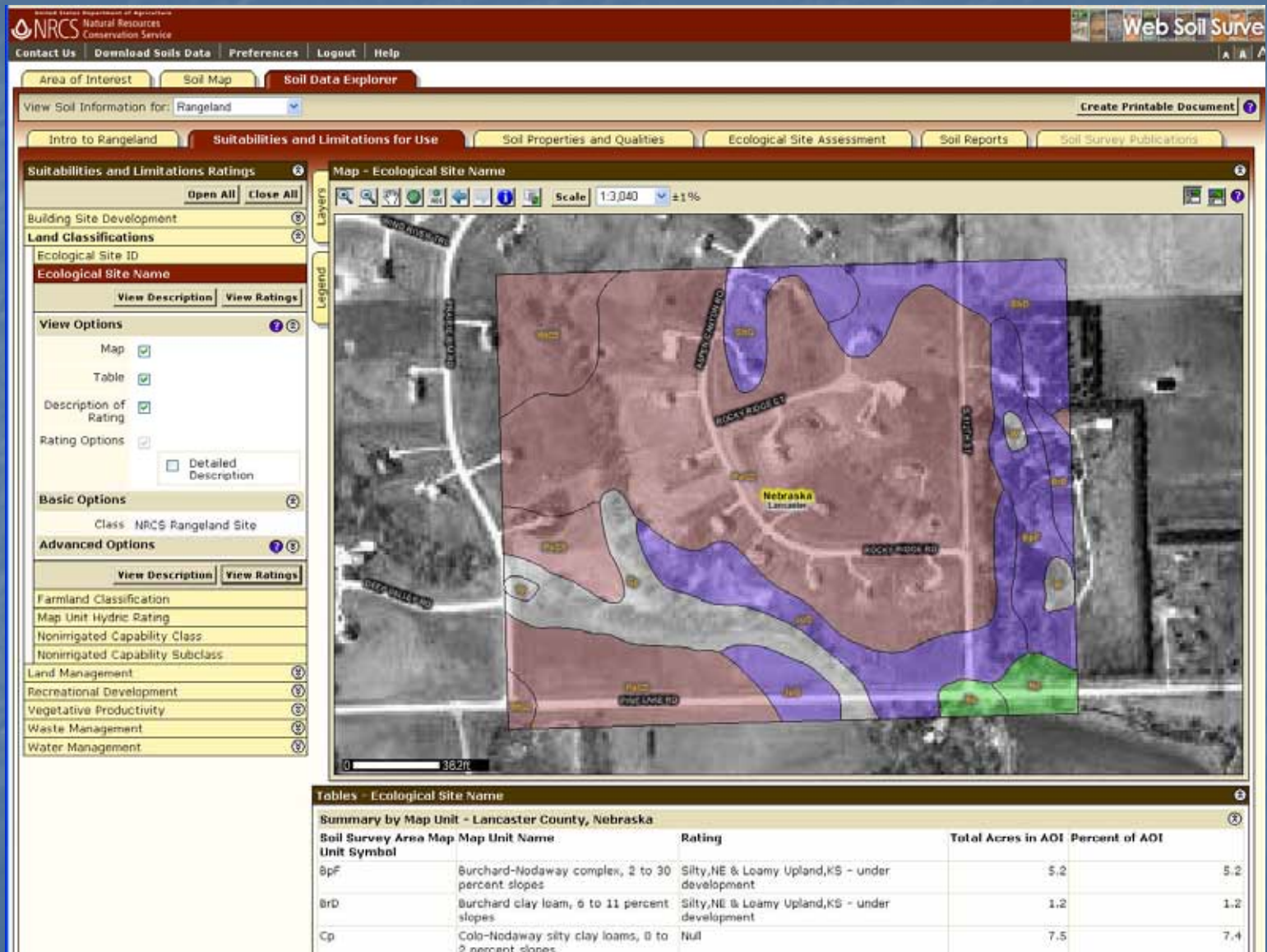
Rangeland is a kind of land on which the historic climax vegetation was predominantly grasses, grasslike plants, forbs, or shrubs. Rangeland includes land revegetated naturally or artificially to provide a plant cover that is managed like native vegetation. Rangelands include natural grasslands, savannas, most deserts, tundra, alpine plant communities, coastal and freshwater marshes, and wet meadows.

Rangelands provide numerous products and have many values and uses. Rangelands are a primary source of forage for domestic livestock and for wildlife. Rangelands provide water for urban, rural, domestic, industrial, and agricultural use. They provide wildlife habitat, areas for natural recycling, purification of the air, and carbon sequestration. Rangelands have aesthetic value, provide open space, and act as buffers for urban areas. They are a vital link in the enhancement of rural social stability and economic vigor.

Reference: "Range and Pasture Handbook," Section 600.0202(a) page 2-2

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Ecological Site Name Map



Ecological Site Assessment

United States Department of Agriculture
NRCS Natural Resources Conservation Service

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Area of Interest | Soil Map | **Soil Data Explorer** | Web Soil Survey

View Soil Information for: Rangeland Create Printable Document

Intro to Rangeland | Suitabilities and Limitations for Use | Soil Properties and Qualities | **Ecological Site Assessment** | Soil Reports | Soil Survey Publications

Ecological Sites Open All Close All

- R106XY075NE - Silty, NE & Loamy Upland, KS - under development
- R106XY068NE - Silty Overflow - Veg. zone 4
- R106XY074NE - Clayey - Veg. zone 4

Instructions

Assessing Ecological Sites

The map below shows ecological sites, aggregated by dominant condition. The table below the map lists all ecological sites for each map unit component in your area of interest.

For more information about aggregation by dominant condition, see the **Suitabilities and Limitations for Use** tab → Land Classifications → Ecological Site Name → Advanced Options help.

To view ecological site data:

1. Select an ecological site in the panel to the left.
2. Select **All Plant Communities** or one plant community.
3. In the **View Options** pane, select the items you want to view.
4. When ready, click **View Ecological Site Info**.

Map - Ecological Sites by Dominant Condition

Table - Ecological Sites by Map Unit Component

Lancaster County, Nebraska

Soil Survey Area Map Component Name (Percent)	Ecological Site	Total Acres in AOI	Percent of AOI
BpF Burchard (55%)	R106XY075NE - Silty, NE & Loamy Upland, KS - under development	5.2	5.2
Nodaway (45%)	R106XY068NE - Silty Overflow - Veg. zone 4		
BrD Burchard (100%)	R106XY075NE - Silty, NE & Loamy Upland, KS - under development	1.2	1.2
Cp Nodaway (40%)	R106XY068NE - Silty Overflow - Veg. zone 4	7.5	7.4
JuC Judson (99%)	R106XY075NE - Silty, NE & Loamy Upland, KS - under development	10.1	10.0
No Nodaway (95%)	R106XY068NE - Silty Overflow - Veg. zone 4	1.6	1.6
Ns Nodaway (95%)	R106XY068NE - Silty Overflow - Veg. zone 4	0.8	0.8
PaC2 Pawnee (100%)	R106XY074NE - Clayey - Veg. zone 4	56.1	55.5
PbC3 Pawnee (100%)	R106XY074NE - Clayey - Veg. zone 4	2.8	2.8
ShC Aksarben (100%)	R106XY075NE - Silty, NE & Loamy Upland, KS - under development	3.0	2.9
ShD Aksarben (100%)	R106XY075NE - Silty, NE & Loamy Upland, KS - under development	6.3	6.2
WtC2 Wymore (100%)	R106XY074NE - Clayey - Veg. zone 4	5.4	5.4

Soil Data Mart Reports

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Soil Reports

Open All | Close All

AOI Inventory

Building Site Development

Dwellings and Small Commercial Buildings

View Description | View Soil Report

Options

Include Minor Soils ☐

Include Description ☐

View Description | View Soil Report

Roads and Streets, Shallow Excavations, and Lawns and Landscaping

Construction Materials

Land Classifications

Recreational Development

Soil Chemical Properties

Soil Erosion

Soil Physical Properties

Soil Qualities and Features

Vegetative Productivity

Waste Management

Water Features

Water Management

Instructions


Viewing Soil Reports

Soil reports are organized by category. If you are familiar with the Soil Data Mart (SDM) or with soil survey publications, you will recognize the list of soil reports as those available directly from the SDM and commonly included in soil survey publications. In fact, the soil reports you get from Web Soil Survey are generated directly from the Soil Data Mart.

To view a soil report:

1. Open a category in the panel to the left, and select a report.
2. To learn more about the report, click **View Description**.
3. In the **Options** pane, select the items you want to view.
4. When ready, click **View Soil Report**.

Note: If you already have a PDF viewer configured to run in your browser, the document will appear in the PDF viewer.

If a PDF viewer is not configured to run in your browser, you will be given the option to download the PDF file. If you do not have a PDF viewer, you can download one by clicking the following link: 

If you know that you want to save the report to your local machine, do so immediately. Otherwise, you may view another document, which time you will no longer have quick access to the one you wanted to save.

Soil Data Mart Reports

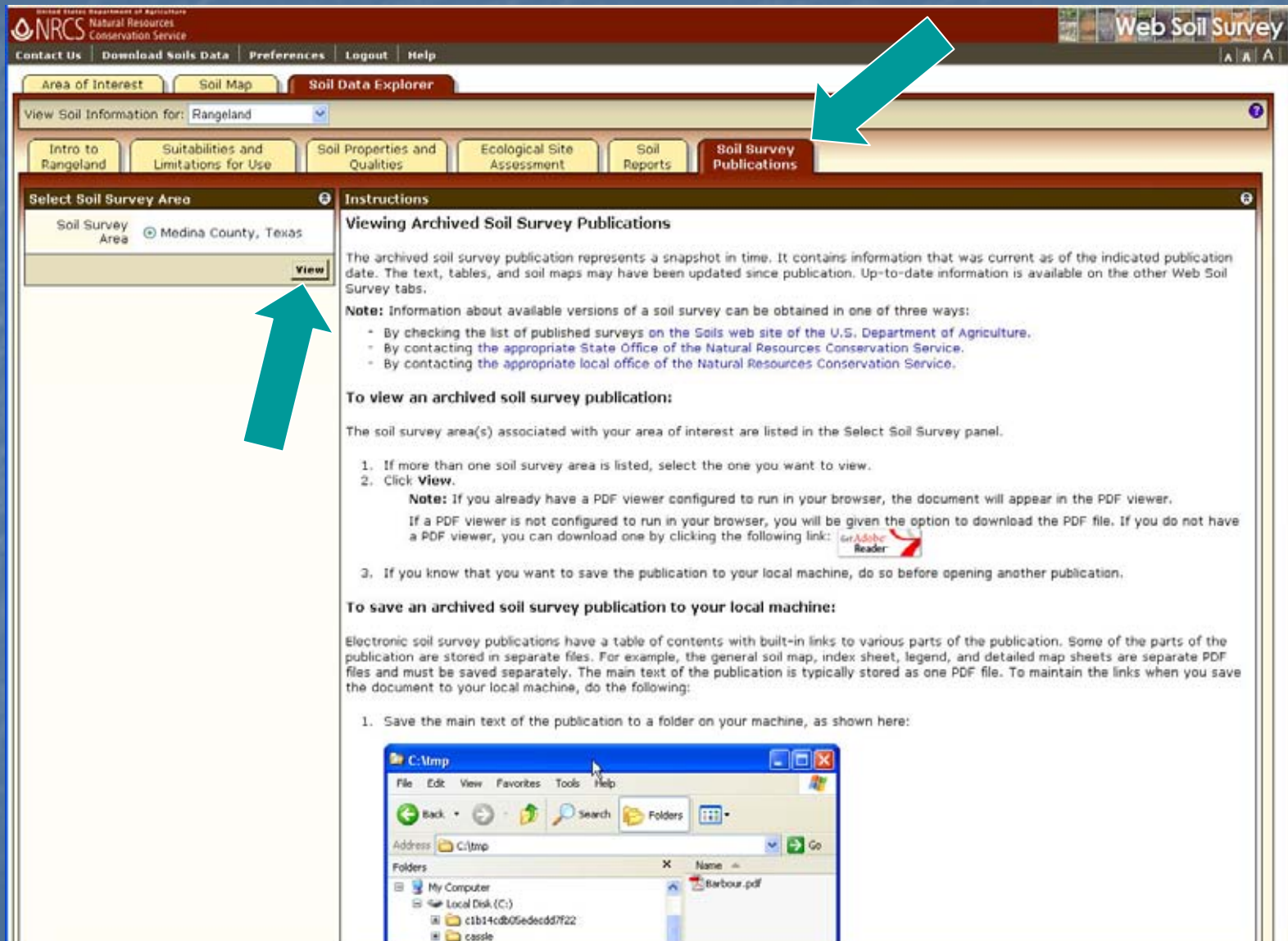
Dwellings and Small Commercial Buildings

Lancaster County, Nebraska

[The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the potential limitation. The table shows only the top five limitations for any given soil. The soil may have additional limitations]

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BpF:							
Burchard	55	Very limited Slope Shrink-swell	1 0.5	Very limited Slope	1	Very limited Slope Shrink-swell	1 0.5
Nodaway, frequently flooded	45	Very limited Flooding Shrink-swell	1 0.01	Very limited Flooding Depth to saturated zone	1 0.35	Very limited Flooding Shrink-swell	1 0.01
BrD:							
Burchard	100	Somewhat limited Shrink-swell Slope	0.5 0.04	Somewhat limited Slope	0.04	Very limited Slope Shrink-swell	1 0.5
Cp:							
Colo, occasionally flooded	60	Very limited Flooding Depth to saturated zone Shrink-swell	1 1 0.5	Very limited Flooding Depth to saturated zone Shrink-swell	1 1 0.5	Very limited Flooding Depth to saturated zone Shrink-swell	1 1 0.5
Nodaway, frequently flooded	40	Very limited Flooding	1	Very limited Flooding Depth to saturated zone	1 0.35	Very limited Flooding	1
JuC:							
Judson	99	Somewhat limited Shrink-swell	0.01	Somewhat limited Shrink-swell	0.5	Somewhat limited Shrink-swell	0.01
No:							
Nodaway, occasionally flooded	95	Very limited Flooding	1	Very limited Flooding Depth to saturated zone	1 0.35	Very limited Flooding	1
Ns:							
Nodaway, frequently flooded	95	Very limited Flooding Shrink-swell	1 0.01	Very limited Flooding Depth to saturated zone	1 0.35	Very limited Flooding Shrink-swell	1 0.01

View Soil Survey Publications



The screenshot shows the NRCS Web Soil Survey interface. At the top, the NRCS logo and navigation links (Contact Us, Download Soils Data, Preferences, Logout, Help) are visible. The 'Web Soil Survey' title is in the top right. Below the navigation bar, there are tabs for 'Area of Interest', 'Soil Map', and 'Soil Data Explorer'. The 'Soil Data Explorer' tab is active, showing a dropdown menu for 'View Soil Information for: Rangeland'. Below this, there are several buttons: 'Intro to Rangeland', 'Suitabilities and Limitations for Use', 'Soil Properties and Qualities', 'Ecological Site Assessment', 'Soil Reports', and 'Soil Survey Publications'. The 'Soil Survey Publications' button is highlighted with a red arrow. Below the buttons, there is a 'Select Soil Survey Area' section with a dropdown menu showing 'Medina County, Texas' and a 'View' button, which is also highlighted with a red arrow. The main content area is titled 'Viewing Archived Soil Survey Publications' and contains instructions on how to view and save publications. At the bottom, there is an inset image of a Windows Explorer window showing a folder named 'C:\tmp' with a file named 'Barbour.pdf'.

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Area of Interest | Soil Map | Soil Data Explorer

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Intro to Rangeland | Suitabilities and Limitations for Use | Soil Properties and Qualities | Ecological Site Assessment | Soil Reports | **Soil Survey Publications**

Select Soil Survey Area

Soil Survey Area: Medina County, Texas

View

Viewing Archived Soil Survey Publications

The archived soil survey publication represents a snapshot in time. It contains information that was current as of the indicated publication date. The text, tables, and soil maps may have been updated since publication. Up-to-date information is available on the other Web Soil Survey tabs.

Note: Information about available versions of a soil survey can be obtained in one of three ways:

- By checking the list of published surveys on the Soils web site of the U.S. Department of Agriculture.
- By contacting the appropriate State Office of the Natural Resources Conservation Service.
- By contacting the appropriate local office of the Natural Resources Conservation Service.

To view an archived soil survey publication:

The soil survey area(s) associated with your area of interest are listed in the Select Soil Survey panel.

1. If more than one soil survey area is listed, select the one you want to view.
2. Click **View**.

Note: If you already have a PDF viewer configured to run in your browser, the document will appear in the PDF viewer.


If a PDF viewer is not configured to run in your browser, you will be given the option to download the PDF file. If you do not have a PDF viewer, you can download one by clicking the following link: [Get Adobe Reader](#)

3. If you know that you want to save the publication to your local machine, do so before opening another publication.

To save an archived soil survey publication to your local machine:

Electronic soil survey publications have a table of contents with built-in links to various parts of the publication. Some of the parts of the publication are stored in separate files. For example, the general soil map, index sheet, legend, and detailed map sheets are separate PDF files and must be saved separately. The main text of the publication is typically stored as one PDF file. To maintain the links when you save the document to your local machine, do the following:

1. Save the main text of the publication to a folder on your machine, as shown here:



The inset image shows a Windows Explorer window with the address bar set to 'C:\tmp'. The left pane shows the folder structure under 'My Computer' and 'Local Disk (C:)', with 'C:\tmp' selected. The right pane shows a single file named 'Barbour.pdf'.

